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CHEMIST and DRUGGIST

SEPTEMBER 20, 1947



The

CHEMIST AND DRUGGIST

RETAILER - WHOLESALE - MANUFACTURER

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CXLVIII

SEPTEMBER 20, 1947

Annual Subscription (with
Diary) 30/- Single Copies 1/-.



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by always stocking
RED DIAMOND
PRODUCTS*

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Absorbable Oxidized Cellulose

‘Oxycel’ is polyanhydroglucuronic acid in sterile gauze-like form for use in various surgical procedures. On contact with blood it exerts marked hæmostatic action and softens to form a jelly-like mass. Ultimately, it is absorbed by the tissues without interfering with wound healing. When ‘Oxycel’ is used as packing within incised organs or in visceral beds the wounds may be closed without drainage.

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Alasil

TABLETS

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A Product of the 'Ovaltine' Research Laboratories



In September..

*will appear the first of the
new season's.*

CROOKES HALIBUT OIL *advertisements*

CROOKES HALIBUT OIL

STANDARD BONUS PARCELS

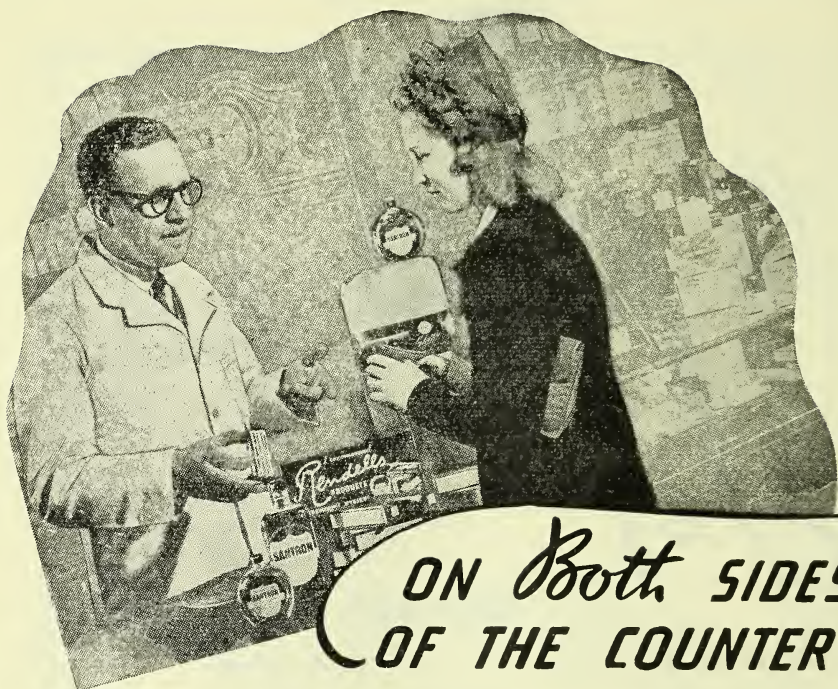
PARCEL E 36 x 25 Capsules @ 2/6 Retail Less 25% .. 10%	£ s. d. 4 10 0 1 2 6 3 7 6 RETAIL VALUE 7/6	BONUS 3 x 25 Capsules RETAIL VALUE 7/6
* Amount of cash with order	* 3 0 9	
PARCEL G 12 x 15 c.c. Drops @ 5/- Retail Less 25% .. 10%	3 0 0 15 0 2 5 0 4 6 RETAIL VALUE 5/-	BONUS 1 x 15 c.c. Drops RETAIL VALUE 5/-
* Amount of cash with order	* 2 0 6	
PARCEL H 36 x 5 c.c. Drops @ 2/- Retail Less 25% .. 10%	3 12 0 18 0 2 14 0 5 5 RETAIL VALUE 6/-	BONUS 3 x 5 c.c. Drops RETAIL VALUE 6/-
* Amount of cash with order	* 2 8 7	
PARCEL J 12 x 30 c.c. Drops @ 9/- Retail Less 25% .. 10%	5 8 0 1 7 0 4 1 0 8 1 RETAIL VALUE 9/-	BONUS 1 x 30 c.c. Drops RETAIL VALUE 9/-
* Amount of cash with order	* 3 12 11	
PARCEL L 12 x 100 Capsules @ 8/6 Retail Less 25% .. 10%	5 2 0 1 5 6 3 16 6 7 8 RETAIL VALUE 8/6	BONUS 1 x 100 Capsules RETAIL VALUE 8/6
* Amount of cash with order	* 3 8 10	
PARCEL M 36 x 100 Capsules @ 8/6 Retail Less 25% .. 10%	15 6 0 3 16 6 11 9 6 1 3 0 RETAIL VALUE £1 5 6	BONUS 3 x 100 Capsules RETAIL VALUE £1 5 6
* Amount of cash with order	* 10 6 6	

... and from then onwards, throughout the winter, the demand for this best seller will steadily increase. To meet changing conditions we are introducing a new parcel consisting of 36 x 25 Capsules — Parcel E and this together with the other cash with order parcels listed here are the only ones available for this season. Bonus parcels K and O have been discontinued.

Particulars of our new Window Display Competitions and bonus leaflet/order cards will be available to the trade early in September. To avoid possible delays later in the year we suggest building up stocks now.

PATA





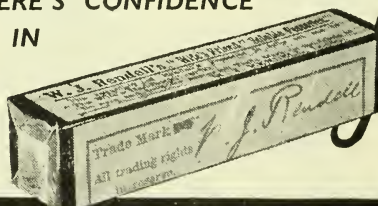
ON BOTH SIDES OF THE COUNTER —

— there's approving comment that the familiar Rendells red box is once more dressed for sale in transparent 'Cellophane' cellulose wrappers. The resumption of this modern and hygienic method of presenting quality goods is in line with the established Rendells' policy — to maintain and enhance the confidence which Rendells products have won from three generations of chemists and consumers.

If you still have on hand any unwrapped stocks of Rendells Pessaries, please return them to us for replacement, writing your name, address and number of boxes on cover. Postage will be refunded.

THERE'S CONFIDENCE

IN



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NOW WRAPPED IN CELLULOSE FILM AGAIN

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Extensive National Advertising in the Press and Women's Magazines is creating national demand for the "Modern" Teat. Used and recommended by Nursing and Medical Authorities for its new anti-colic design—nearest to natural feeding. Supply position easier. Stock up now. Obtainable from wholesalers only. Fixed Retail Selling Price 6d. each.



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 ANTI-COLIC **TEAT**

Used and recommended by MATERNITY HOSPITALS, DOCTORS, NURSES and WELFARE CENTRES

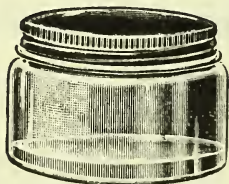
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**SQUAT POTS**

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½, 1 & 2 oz.

TALL POTS

1, 6 & 16 oz.

BEST QUALITY

1, 2 & 4 oz.

OVAL POISONS ½ oz.

INDIRECT SQUARES with finger-grips, sprinkler
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(So long restricted to 1/4 size only)

The manufacturers have pleasure in
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3/3

size (30 days' treatment)

is now available to wholesalers and retailers

P.A.T.A. minimum wholesale price

27/- doz.

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WATFORD, HERTS

Advertisement of The Iron Jelloid Co. Ltd, Watford, Herts



A Name associated with PILLS & TABLETS

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SOUTHERN & NORTHERN RHODESIA Geddes Ltd. Bulawayo and Salisbury.

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FOR ALL ABRASIONS

and

ERUPTIONS of the SKIN

*In collapsible tubes and flat
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Also 1 lb., 2½ lb., and 7 lb. sizes

33½% Discount to Pharmacists

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POWDER

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The powder is blown just where it is required.

Packed in 3 doz. outers.

Retail 9d. ea. 6/- per doz.
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5% D.D.T. 5% Pyrethrum Extractives.

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METHERGIN

METHYL ERGOMETRINE TARTRATE

A NEW OXYTOCIC

Methergin, a new semi-synthetic alkaloid, possesses marked advantages over Ergometrine, notably a more prolonged action, and enhanced activity. In addition, Methergin is remarkably well tolerated even in high doses, and is devoid of any action on the sympathetic nervous system.

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PACKED IN
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(TF 6)

PILLS TABLETS CAPSULES

The
British
Made
Products
of

HOWARD LLOYD & CO LTD
LEICESTER

Our advertising will bring you PRESTIGE AND PROFITS



This attractive Display Stand is supplied free with all orders for one dozen boxes or over.

The increasing demand for ESOBACTULIN is now being backed by intensive advertising to millions of potential customers. Pocket Calendars for Counter distribution together with Show material are sent direct by us, on request.

SPECIAL BONUS OFFER

One **7/6** size free with each dozen.

TERMS: 33 $\frac{1}{3}$ % discount

STOCK NOW—Please send orders to your usual C. F. Wholesaler, or to us, giving his name.

A product of:

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Empty ANDREWS cases *please*

For some time past we have experienced considerable difficulty in despatching supplies of Andrews because of the acute shortage of cases.

The position is NOW SERIOUS

and unless customers holding Andrews empty cases return them immediately a hold-up in deliveries will result. Your co-operation is requested. Postage or carriage will be credited.

HOW TO SEND

Fold cases flat, flaps inside, tie up. Ready addressed gummed labels obtainable from our travellers, or direct from us. Up to 15 lbs., by post (*state cost on label*). Over 15 lbs., by rail, c/fwd (*or state cost on label*).

ANDREWS

SCOTT & TURNER, LTD.
Andrews House, Newcastle-on-Tyne, 2
T.11.

for
TABLETS & PILLS
CAPSULES, LOZENGES
& SUPPOSITORIES

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ENQUIRIES
INVITED

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&
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EST. 1894

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ALUMINIUM COMPOUNDS for PHARMACEUTICALS



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FOR
CHEMISTS

*Manufacturing
Chemists*

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IF YOU'RE OUT OF ONE RECOMMEND THE OTHER



In these days, when, do what we will, we cannot always cope with demand, there is an added advantage in the two kinds of Parmit and their three sizes.

All our Press advertising features both Parmits and mentions all their prices. At the moment the 1/5 ready for use Parmit Syrup is in short supply. If you are temporarily out of stock, recommend your customers to take a 2/10 bottle or a 3/1½d. bottle of the Parmit Concentrated Essences.



and

PATA

INTERNATIONAL LABORATORIES LTD:
1-3, SMEDLEY STREET, LONDON, S.W.3

52% Honey and Sugar!

100% Efficient!

35½% Profit!

(ON BEST DISPLAY TERMS)

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**STOCK
AND
DISPLAY**

Trade Terms: 13/9 per doz.

Pur. Tax 2/3½ per doz. Retail at 1/9 (including tax)

Price per doz. on best display terms . . . 12/0½

Pineate

REGD

HONEY Cough-Syrup

INTERNATIONAL CHEMICAL CO. LTD. CHENIES STREET, LONDON, W.C.1

PATA



*Ample supplies
available
In case of difficulties
communicate direct with us*

RETAIL
PRICE
50s - 3/4
500s - 27/8
INCLUDING PURCHASE
TAX

BIOLOGICAL TREATMENT OF

CONSTIPATION

CONTINENTAL LABORATORIES LTD. 101 & 102 RUSSELL ST. W.C.1.

NIGROIDS

for the throat & voice

FERRIS & COMPANY
LIMITED, BRISTOL

CHARCOAL

Enquiries
Invited

of every
description for Filtering,
Medicinal, Decolorizing,
Absorption, etc.

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24, Union Road - Exeter - Devon.

CLARK'S medical LIVER & KIDNEY SALT

An old favourite and ready seller now available again, to
retail at 1/1½d. A Newball & Mason line. Attractive
pack, attractive terms. Write for details.

NEWBALL & MASON LTD., NOTTINGHAM. Est. 1850

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Sole Manufacturers

With Vitamins

(A. 6,500 I.U., D. 400 I.U.)
per fl. oz.

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The VITAMIN MALT FOOD

Compressed TABLET SERVICE

WHOLESALE & EXPORT

Clients' own material operated if desired. Reasonable estimates.

The DALES ASPIRIN AND TABLETING CO. Barrows Lane, STEETON, Yorks.

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May we be pardoned a little French enthusiasm,
but there is a little more Pinaud now! Pinaud
products, made to the famous Paris formulæ—



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"612" MASCARA



POMMADE HONGROISE (traditional for the moustache)



LOTION VEGÉTAL (Lilas)



LOTION VEGÉTAL (Violettes des bois)



LILAC VEGÉTAL
(After shave lotion)



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EXTRAIT LAVANDE DE FRANCE



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Members of the P.A.T.A. and H.T.A.

A LA CORBEILLE FLEURIE



TRADE

MARK



'AVLON' brand

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HYDROCHLORIDE B.P.

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Because of these advantages procaine is widely used, and is regarded by many authorities as the drug of choice for such purposes as regional, infiltration and spinal and dental anaesthesia. It has useful applications also in ophthalmology and rhino-laryngology.

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Powder : Bottles of 10, 50, and 100 grammes.

Sterile Solutions : 0.5%, 1%, 2%, 5% (with or without adrenaline) in bottles of 25 c.c. and 50 c.c., and ampoules of 2 c.c., 3 c.c. and 5 c.c.



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MENTHOL & WINTERGREEN CREAM

33 $\frac{1}{3}$ % profit

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12/- per dozen excluding
tax.



giving speedy, effective relief of RHEUMATIC
and other MUSCULAR PAINS and UNBROKEN
CHILBLAINS

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**To all users of
GUM TRAGACANTH**

- GROUND by a special process to ensure controlled tenuity.
- VISCOSITY established under expert supervision.
- TESTED at every stage of processing.
- GRADED to a series of predetermined standards.
- PACKED in airtight tins.

YOUR INDIVIDUAL REQUIREMENTS ARE PROVIDED FOR BY RED CARNATION BRAND POWDERED GUM TRAGACANTH, WHICH IS NOW AVAILABLE IN FOUR STANDARDISED GRADES, OF CERTIFIED QUALITY AND CHARACTERISTICS.

GUM TRAGACANTH is an essential ingredient in many industrial and pharmaceutical formulæ. Being a natural product, with natural imperfections and variations, its commercial applications have, in the past, been attended by problems arising whenever the characteristics of an ingredient are not stable. Now—these problems have been solved by the marketing of RED CARNATION Brand Gum Tragacanth. Whenever you order RED CARNATION Brand Gum Tragacanth, and whatever Grade you order, you know what you will be receiving—Gum Tragacanth in a stabilised form as regards viscosity, colour and fineness of powder. In addition, you are certain that the Gum Tragacanth you receive is fresh, as the large turnover of RED CARNATION Brand obviates the risk of the Gum in stock deteriorating through long storage.

GRADES

1	2	3	4
BXXX	BXX	BX	BA

● If you have any queries regarding RED CARNATION Brand Gum Tragacanth—e.g. which Grade is most suitable to your requirements—our Research Department will be pleased to advise you.

RED CARNATION
Powdered Gum Tragacanth

KIMPTON BROS. LTD.

Established 1882

Dent. C.D.1—110 Fenchurch St., London, E.C.3 Telephone: ROYal 5717-8-9

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Closing October 15 13 to the dozen

Make a big EXTRA PROFIT out of your ARGOTONE sales by taking full advantage of this offer. Your wholesaler will send you 13 bottles for every dozen you order up to October 15th. And on every dozen you order you will make an EXTRA 3/5d. which, in effect, increases your profit by one-third.

Our extensive National advertising campaign means that your stock will move quickly. Conveniently small Show cards and Trapinex transparent window stickers obtainable from Rona Laboratories, but

All orders to your usual Wholesaler, please

ARGOTONE

RONA LABORATORIES LTD.
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**NASAL
DROPS**

Large Includ
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make-up Base
Cleansing C
Lipsticks
Face Pow
Etc. Etc.



Introducing

Gay-Venture

The New

BEAUTY PREPARATIONS

produced in our own model factory under scientifically controlled conditions. These high-class beauty preparations are already established in the world's markets, and supplies are now available in limited but regular quantities for the home market.

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GOLD MEDAL
Eau de Cologne

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To makers of

Cosmetics

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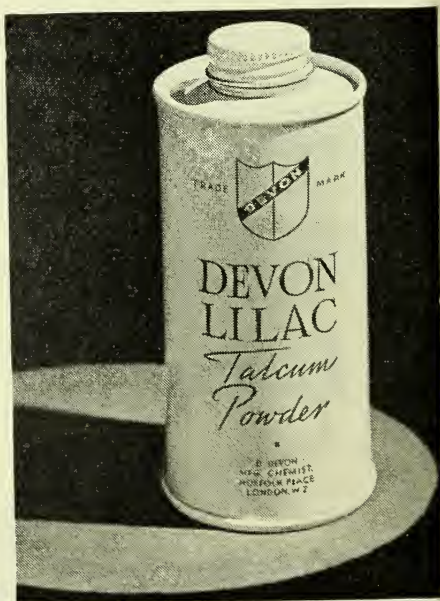
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Clean them ALL

Here's profit to you

QUIZ
teethbrush

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Sole distributors for United Kingdom
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no moths



with Mothaks'



—and why



MOTHAKS are a true moth-repellent. Though they have a pleasant smell, no moth will come near them. The widespread goodwill MOTHAKS have built up over many years is soundly based, because people know that when clothes have MOTHAKS placed among them, the insect will not come and lay its eggs. Your customers are being reminded of this in strong national advertising; and attractive display material for your own counter is available now. Send for your supplies—and attractive display material—to THOMPSON & CAPPER WHOLESALE LTD., SPEKE HALL ROAD, LIVERPOOL, 19.



*Let this attractive display pack
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HAIR COLOUR RESTORER

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All products obtainable from your usual wholesaler or direct from

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Crème Simon

CURRENT PRICES

CRÈME SIMON

JARS	No. 1	7s. 6d. Ea.
"	No. 2	4s. 9d. "
"	No. 3	2s. 9d. "
TUBES	No. 1	3s. 3d. "
"	No. 2	1s. 3d. "

POUDRE SIMON NO. 2 (Extra Light)

BOXES 4s. 3d. Each

Shades : Blanche, Rose,
Rachel, Rachel Foncé (deep
Rachel), Naturelle, Ocre
Rosée, Ocre, Bistre (Suntan).

Perfumes : Maréchale.
Violette, Héliothepe.

CRÈME SIMON M.A.T. (Matt-Active-Tonic)

JARS (LARGE)	4s. 9d. Ea.
" (SMALL)	2s. 9d. "
" (POPULAR)	1s. 3d. "
TUBES (LARGE)	3s. 3d. "
" (SMALL)	1s. 3d. "

NOUVELLE POUDRE SIMON NO. 3

(Slightly heavier than No. 2)
LARGE SIZE BOX 3s. 0d. Ea.
SMALL SIZE BOX 1s. 3d. "

Shades : Blanche, Rose,
Rachel, Rachel Foncé (deep
Rachel), Naturelle, Pêche,
Ocre Rosée, Ocre, Bistre
(Suntan).
Parfume de la Crème Simon
M.A.T.

PRICES ARE TO PUBLIC (INCLUSIVE OF PURCHASE TAX)
(FULL DETAILS AND TRADE TERMS WILL BE ISSUED UPON
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*Beauty Film
Make-up*

Cash in with this new-comer to the famous Swandown range. It's selling as fast as women can make up! Retailing at 5/10, inc. tax, in the following shades : Rachel, Naturelle, Peach, Rose-Indian, Summer-Tan. Order from your wholesaler or direct from:

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★—★—★

Sole Makers . . .

The Wafer Razor Co. Ltd.

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PHONE 51824



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GALENICALS



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Grams: HOREHOUND, Phone, LONDON

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relations In the Steiner range of beauty products, two only are not hair specifics. But the name and glamorous reputation of the Steiner Salons are behind them, ensuring immediate attraction and sales. Indeed, Eau Dentifrice has, for some years, had a prominent place in its own right on the bathroom shelves in good class homes! Both preparations offer good profit margins. Ask for special display terms.



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Victory V

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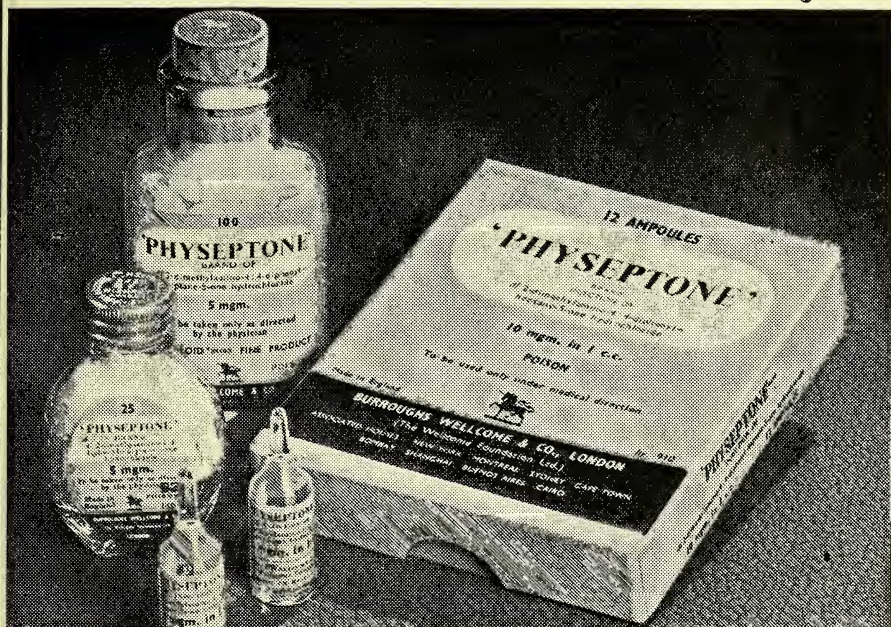
OVER 150 YEARS REPUTATION
KEARSLEY'S

THE ORIGINAL

WIDOW WELCH'S FEMALE PILLS

9d. BOX PROFIT by ordering 1 dozen
2/- size. Bonus box given on every
dozen (13). It pays to push this size.

C. & G. KEARSLEY LTD.
71 Dartmouth Rd., London, S.E.2.
Est. 1747 in the Reign of King George II.



THE NEW ANALGESIC

'Physeptone' is being advertised in every leading Medical Journal. . . is being detailed to every prescriber in the United Kingdom . . . 'Physeptone' will be prescribed in your district. Make sure that you have stocks to meet prescription demands. 'Physeptone' is the new synthetic pain-relieving substance, more effective than morphine, yet free from its disadvantages. Literature available on request.

★ **IMPORTANT NOTE** 'Physeptone' was originally announced under the name 'Miadone'.

'TABLOID' ^{BRAND} COMPRESSED PRODUCTS

5 mgm :

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INJECTION

10mgm. in 1c.c. Boxes of
12 ampoules9/0
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List prices, subject to trade discount.

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dl-2-DIMETHYLAMINO - 4 : 4 - DIPHENYLHEPTANE - 5 - ONE HYDROCHLORIDE

available now



BURROUGHS WELLCOME & CO. (THE WELLCOME FOUNDATION LTD.) LONDON

WARRICK BROS., LTD.,

INCORPORATING—MADDOCKS & CO.—R. HENDRIE & CO.

ESTABLISHED IN 1766

MAKERS OF FINE PRODUCTS

CAPSULES

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PILE PREPARATIONS

PACKED IN A MANNER WORTHY
OF YOUR PHARMACY.

MANY PRODUCTS CAN BE SUPPLIED WITH
CUSTOMER'S OWN NAME AND ADDRESS.

SPECIAL FORMULAE, PACKINGS & LABELS.
OUR UNIQUE EXPERIENCE IS AT YOUR DISPOSAL.

4, 6, 8 & 10, NILE STREET,

LONDON. N.1.



The CHEMIST AND DRUGGIST

For RETAILER — WHOLESALE — MANUFACTURER
Published weekly at 28 ESSEX STREET, STRAND, LONDON, W.C.2

Telegrams: "CHEMICUS, ESTRAND LONDON."

Telephone: CENTRAL 6565 (10 lines)

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NEWS OF THE WEEK

Penicillin Production. — The weekly average for the production of penicillin in the United Kingdom was 94,500 mega units during July, compared with 90,900 mega units in July 1946. The highest average reached so far was in May at 95,000 mega units.

Export Licensing Control Changes. — A new Board of Trade Order (S.R. & O., 1947, No. 1945), which came into operation on September 15, provides that no export licenses will be required for exports of gum dammar, and cod-liver oil and certain cod-liver oil preparations.

Production of Toilet Brushes. — In the first quarter of 1947 the monthly average of Britain's output of tooth-brushes was 756,000 and during this period an average of 2,069,000 brushes was supplied to the home civilian market each month. Corresponding average figures for other toilet brushes were 1,160,000 and 820,000 per month, respectively.

Exporting "Know-how." — The British Export Trade Research Association has established a department to give advice on

the possibility of entering into "know-how" agreements whereby the experience and knowledge of British manufacturers is made available on a royalty basis to manufacturers in foreign countries where the actual products of the British companies cannot easily gain admission. Further information may be obtained from the secretary, 48 Dover Street, London, W.1.

Water-softening Preparations. — The Commissioners of Customs and Excise have decided that soda types of water-softening preparations with colouring or aromatic ingredients (e.g., simple preparations of sodium sesquicarbonate, coloured or containing pine oil, pine compounds, etc.) are chargeable with purchase tax at the rate of 100 per cent. of their wholesale value under Class 18 (i) whether or not they are sold as bath salts. Purchase Tax Notice No. 78 should be amended accordingly.

Physicians in Conference. — At a meeting of the International Conference of Physicians held in London recently, a discussion on penicillin and streptomycin was opened by Sir Alexander Fleming, who

described methods which had been used in an attempt to diminish the rate of absorption of penicillin. Dr. P. M. D'Arcy Hart (scientific staff, Medical Research Council) said that the early results of streptomycin trials were encouraging; pure streptomycin was causing fewer toxic reactions, but there were still dangers attached to its use.

Poliomyelitis Figures Rise.—The number of cases of acute poliomyelitis notified in England and Wales during week ended September 6 was 622, the highest weekly figure yet recorded and an increase of fifty on the previous week. An official of the Ministry of Health, commenting on the increase which followed two successive weeks during which there had been a decrease in notifications, said that from the experience of previous years, it must be expected that the figures would fluctuate for some time.

Chemistry Research Grants.—Applications for grants to be considered at a meeting of the Chemical Society's Research Fund Committee in November must be sent to arrive not later than November 1. Application forms may be obtained from the general secretary, Burlington House, Piccadilly, London, W.1. Income from the donation of the Worshipful Company of Goldsmiths is devoted principally to the encouragement of research in inorganic and metallurgical chemistry, while that from the Perkin Memorial Fund is to be applied to research connected with the coal tar and allied industries.

N.H.I. Contribution Arrears.—The Ministry of National Insurance, in a statement issued on September 11, warned employed National Health Insurance contributors that notices of arrears for the year 1946-47, which ended on July 6, would be issued by Approved Societies only to voluntary contributors. To avoid losing benefits in 1948, employed contributors should ensure that they have to their credit not less than thirty-six contributions for 1946-47, after allowing for contributions excused for sickness, etc. Cards for making arrears payments, which cannot be accepted after November 30, are obtainable from the Approved Societies.

Registered Pharmacists' Union.—The following officers of the Registered Pharmacists' Union have been elected: *President*, Mr. R. G. Collins, Oxtou, Birkenhead; *Vice-president*, Mr. R. MacDonald Murray, Middlesbrough, Yorks; *General Secretary*, Mr. G. H. Armitage, 14 Lovelace Road, East Barnet, Herts; *Treasurer*, Dr. D. J.

Gibson, London, S.E.5; *Council*, Mrs. Collins, London, Messrs. L. Pegg, London, W. Tait, Camberley, W. C. S. Thomas, London, R. G. Madge, Plymouth, J. Morris, Ashton - in - Makerfield, W. Phillipson, Manchester, Dr. E. W. Skyrme, St. Leonards, and Messrs. J. H. Spence, London, R. Williams, Harrow, G. Sheard, Dartford, R. G. Davies-John, Beeston, Notts, and S. E. Greenwood, Beeston, Derbys. The first issue of the "R.P.U. Bulletin," the Union's journal, has recently been published under the editorship of Mr. G. H. Armitage.

Engineering Exhibition.—Although only marginal interest, in the main, to the drug trade, the Engineering and Marine Exhibition which opened at Olympia, London, on August 28, was nevertheless not devoid of points of interest to pharmacists and others in the trade. For example, spectacles, used in chemical works to cut down the sodium glare in the manufacture of ampoules, were to be seen at the stand, SAFETY PRODUCTS, LTD., London. The glass, Neodex or Chance O N 18, is bluish green in colour, and has a low transmission of yellow light. A feature of the spectacle was that they were offered in brightly coloured frames of attractive shape, so as to present no obstacle to their use by girls in the ampoule-making departments of drug houses. SIEBE, GORMAN & CO., LTD., Tolworth, Surrey, also showed apparatus for industrial safety, including respirators and breathing apparatus for use in chemical works. ALLBRIGHT & WILSON, LTD., London, showed phosphorus, phosphoric acid phosphates and other industrial chemicals. At the stand of ROZALEX, LTD., Manchester, was demonstrated the use of the company's speciality Rozalex as a protective application against industrial dermatitis. Apparatus and plant for use in the chemical industry was seen at the stands of MET FILTRATION, LTD., Hounslow, and SHARPLES CENTRIFUGES, LTD., Stroud. Dial-type thermometers were displayed by BRITISH ROTOTHERM CO., LTD., London, and NEGRETTI & ZAMBRA, London. Convector heaters were shown on the stand of E. K. COLE, LTD., Southend-on-Sea. The research activities of the Department of Scientific and Industrial Research received publicity at a stand entitled "Science in the Service of the Nation." A prominent stand was that of MORGAN BROTHERS (PUBLISHERS), LTD., publishers of "The Engineer" and "The Ironmonger" as well as of THE CHEMIST AND DRUGGIST.

LOCAL NEWS

"Enterprise Scotland" Continues.—The closing date of the "Enterprise Scotland" exhibition at the Royal Scottish Museum, Edinburgh, has been postponed, and the exhibition is now expected to continue at least until the middle of October.

Outing to Brighton.—Members of the staff of Picot, Ltd., perfumery manufacturers, London, W.6, took part in an outing to Brighton on September 6. The day's programme included a theatre visit, followed in the evening by a dinner and dance.

Manchester Chemists' Golf.—The annual golf competition for the Hough, Haseason & Co., Ltd., prize, played at Hamhall on September 3 under Stableford rules, was won by Mr. R. M. Shaw (34 points). Mr. J. C. Watson (30 points) won the second prize.

Bolton Doctors' Rota.—Doctors in Bolton have organised an experimental rota scheme under which afternoon and evening duty on Wednesdays, Saturdays and Sundays is undertaken in turn. During each period one doctor is available in each of the four parts of the town while the remainder are free.

Warrington Officers.—At the annual meeting of the branch of the Pharmaceutical Society, held on September 8, the following officers were elected for 1947-48:—**Chairman**, Mr. R. H. Sutton; **Vice-chairman**, Mr. Edward Hill; **Secretary**, Mr. W. Twiss, 717 Knutsford Road, Warrington; **Treasurer**, Mr. A. P. Peake; **Local Secretary**, Mr. C. Schofield.

Presentation to Sales Manager.—At a luncheon which formed part of a conference for sales representatives held in London by Gray, Ltd., on September 13, Mr. H. Liss (joint managing director) who presided, announced that Mr. A. S. J. Painter, general sales manager, was leaving the company on September 30 to take up a new appointment (see p. 335). After paying a tribute to Mr. Painter's work, Mr. Liss presented him with a silver inkstand, the gift of the directors of the company. Toasts to Mr. Painter, and his successor, Mr. H. Jacobs, proposed by the chairman, were then honoured.

Romford Diabetes Lecture.—The 1947-48 session of the Romford Branch of the Pharmaceutical Society was opened on September 8 when Mr. W. A. R. Thomson, M.D. (head of the medical department,

Boots Pure Drug Co., Ltd., Nottingham) spoke on "The Modern Treatment of Diabetes Mellitus." Dr. Thomson outlined the early developments in the treatment of diabetes and stressed the need for simplicity when giving instructions to diabetic patients. The control of carbohydrate intake was illustrated by a summary of diet directions and simple instructions to the patient. An outline of insulin therapy was followed by a description of the forms in which insulin is now available, and the individual indications of each type.

Harrow Discussion.—At a recent meeting of the Harrow Branch of the Pharmaceutical Society, Miss M. C. Islip and Mr. J. F. McNeal (members of the Society's Council) introduced a discussion based on the topics which were to be considered at the Branch Representatives' meeting at Torquay. While the majority of speakers supported the broad principles of the Society's educational policy and the proposed alterations in constitution, some members were concerned about future trends in pharmacy. They suggested that inadequate remuneration, coupled with higher educational standards, would tend to reduce the intake of students into the profession and to increase the importance of unqualified dispensers. Mr. Gibson suggested that Fellowship of the Society should not be given *de jure* to all members holding the present Pharmaceutical Chemist diploma, but should be reserved to those actively engaged in pharmacy. Some apprehension about the proposed appointment of a further three members to the Society's Council by the Privy Council was expressed by Mr. McNeal, who also warned pharmacists to safeguard their right to the title "chemist." Mr. H. W. Tomsiki reminded members that the frequency of prescriptions per insured person was declining and that the number of prescriptions for prepacked articles was on the increase. For these reasons, pharmacists would in the future have to be more than dispensers and distributors of drugs. The proposed educational standard would increase the status of the profession and would ultimately be rewarded by adequate payment for pharmaceutical services. No resolutions were passed at the meeting so that the delegates to the Torquay conference would be able to consider with an open mind the views expressed there. They were, however, instructed to report to members how they voted at the Branch Representatives' meeting.

COMPANY NEWS

HENRY WILLIAMSON (CHEMISTS), LTD. (P.C.).—Capital £2,000. Ada I. Williamson and John H. Tait, M.P.S., directors. R.O.: 1 Queen Street, Ossett, Yorks.

STERLING CHEMICAL DYES & COLOURS, LTD. (P.C.).—Capital £1,000. Sylvia E. Vrana, director. R.O.: 12 Ebbsfleet Road, Cricklewood, London, N.W.2.

SINCLAIR'S TOILET PREPARATIONS, LTD. (P.C.).—Capital £100. Leslie S. Lewis and Mrs. Eliza A. Horne, directors. R.O.: 59-60 Gracechurch Street, London, E.C.3.

SALI LOBEL (HEALTH & BEAUTY) COSMETICS, LTD. (P.C.).—Capital £2,000. Sali Lobel and Donald D. Murray, directors. R.O.: 20 Bedford Street, Strand, London, W.C.2.

MULTIPLEX CHEMICALS, LTD. (P.C.).—Capital £2,000. To carry on the business of manufacturing, research, dispensing and analytical chemists, etc. J. H. Clarke and J. H. F. Hurford, M.P.S., directors. 109 Riverview, Gardens, Barnes.

CARTER & WILLIAMS, LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturers of and dealers in oils, emulsions, etc. W. F. H. Carter and G. Williams, directors. R.O.: 582-4 Christchurch Road, Bournemouth.

EDWARD MOWAT (CHEMISTS), LTD. (P.C.).—Capital £500. To carry on the business of chemists, druggists, etc. Mrs. Isabella R. F. Mowat and Andrew Penman, M.P.S., directors. R.O.: Bush Lane House, London, E.C.4.

SMITHS TABLE WATERS, LTD. (P.C.).—Capital £20,000. To carry on the business of mineral water manufacturers, manufacturing chemists, fruit juice importers, etc. F. Smith and W. J. Richardson, directors. R.O.: 74 Sidney Street, London, E.1.

LING PRODUCTS, LTD. (P.C.).—Capital £2,000. To carry on the business of manufacturers of and dealers in chemicals, drugs, oils, colours, toilet goods, etc. Howard T. Halper, director. R.O.: First Avenue House, High Holborn, London, W.C.1.

CLARENE TRADING CO., LTD. (P.C.).—Capital £1,000. To carry on the business of importers and exporters of and dealers in chemicals, etc. Kurt Lawton and George Lawton, directors. R.O.: 44 Bedford Row, London, W.C.1.

RESOFOPO, LTD. (P.C.).—Capital £100. To carry on the business of manufacturing, wholesale, retail chemists and druggists, etc. Dr. S. Ozga and S. Seigalski, directors. R.O.: 34 Belgrave Square, London, S.W.1.

LUIWENA, LTD. (P.C.).—Capital £1,000. To carry on business of manufacturers of and dealers in chemicals, gases, drugs, medicines, etc. Man Chenk Lui and Mrs. Ethel Rowena Lui, directors. R.O.: Bay Cottage, Meanwood, Leeds.

A. N. BROWN (CHEMISTS), LTD. (P.C.).—Capital £1,000. To acquire the business of a retail chemist now carried on by Miss Norma Brown at 367 Skircoat Green Road Halifax, as "N. Brown." Norma Brown M.P.S., and Arthur Brown, directors.

J. LAVILL, LTD. (P.C.).—Capital £2,500. To carry on the business of dealers in importers and exporters of drugs, pharmaceutical chemicals, cosmetics, etc. Charles H. White and Joseph Lavill, director. R.O.: 81 High Street, Smethwick.

MARCEL ROCHAS (ENGLAND), LTD. (P.C.).—Capital £2,000. To carry on the business of importers and manufacturers of agents for and dealers in perfumes, powder cosmetics, powder puffs, and recenteale therefore, etc. Marcel Rochas and Noree Rote, directors. R.O.: 448 Strand, London W.C.2.

F. H. STEELE & Co., LTD. (Public Company).—Registered in Dublin September 1947. Capital £60,000 in 35,000 participating preference (5 per cent. cumulative) and 25,000 ordinary shares of £1 each. Objects: To carry on the business of manufacturers, wholesale chemists and druggists, drysalters etc. William H. Birmingham, M.P.S., Dr. Thomas R. Tierney, Alexander D. Davidson (managing director), Sean Brady, Dr. Charles H. McMahon, Desmond M. McCracken and F. H. Steele, all of Dublin directors.

M. W. HARDY & Co., LTD.—Mr. John Gadd has resigned his directorship through ill health and Mr. H. L. Gilbert has tendered his resignation to the company.

FISONS, LTD.—An offer for the exchange of shares has been sent to the shareholders of BENGERS, LTD., after discussion between the directors of the two companies. The offer will remain open until October 8.

VITAMINS GROUP (A.F.P., LTD., BEMAX SALES, LTD., and VITAMINS, LTD.).—Readers of the company meeting report published under the above heading in the issue of the *C. & D.* dated August 30 may have been confused by a printer's error misinterpreting one of the chairman's remarks. What Mr. H. C. H. Graves said, after referring appreciatively to the work of the Cohen Committee, was that "the Vitamins Group had one hidden asset which not even that Committee could require them to show in their balance sheet," and he went on to speak of the unswerving loyalty of a first-class staff, pointing out that this country possessed vast untouched reserves of strength and output in its workers which only required bringing to the surface. It is much regretted if the printer's error may have conveyed the impression that the grouping of the companies was the hidden asset to which the chairman referred.

TOPICAL REFLECTIONS

Report on Patents

The final report of the Departmental Committee on Patents and Designs set up in 1944 (pp. 308-10) merits, and will no doubt receive, careful study. Without attempting a comprehensive analysis of so important a document, two of the Committee's recommendations may be briefly noted. One of these is the removal of "the existing limitation on the claiming of chemical substances, as well as on the claiming of substances used for food or medicine." The steps by which this conclusion has been reached are lucidly set forth in the report. So nearly balanced were the arguments for and against the decision that the Committee states: "On the whole, we have come to the conclusion that it is preferable to remove the limitation equally" The other recommendation referred to is a proposal to safeguard rights of employees by changes in Patent Office procedure. Some of your readers can, I suppose, recall cases of injustice to employees who, lacking both money and experience, have either received less than their due for an invention or have had to institute legal proceedings in order to secure their rights. The new proposal of the Committee seems to provide satisfactorily against the occurrence of further cases of the same type. As your excellent summary of the report shows, many other points of importance are dealt with in it—for instance, the rights of third parties. It remains to be seen how a Bill embodying these proposals will fare in Parliament.

Pharmaceutical Education

In view of the explanation, announced in September 17 of changes in the Pharmaceutical Society's education regulations, a news paragraph (p. 302) concerning an educational grant for students of pharmacy in Canada and the articles of Mr. William Cooper and Mr. John E. Shinner (pp. 320, 321) are topical. Writing before September 17, I can only express the hope that the official report of the explanation will be issued without much delay. The Canadian Foundation for the Advancement of Pharmacy has evidently realised that pharmaceutical training is likely to cost more in the near future, and has evolved a policy the full effect of which will not be felt immediately. The aim is "to promote the attractiveness of the profession to well selected, promising young people." Presumably

there is in operation in Canada, as there is in this country, a system of vocational guidance for scholars; and we may believe that prospective employers in both countries collaborate with educational authorities with a view to the avoidance of misfits. The reflections of Mr. Cooper and Mr. Shinner do not include much that is new. Mr. Cooper reports a welcome keenness on the part of students to take the external Intermediate B.Sc. examination of London University. The difficulty of passing this or any examination should not be exaggerated: much depends on a well-chosen curriculum and a proper time-table. With Mr. Cooper's remark that he fails to see "anything incompatible in the possession of a degree and the running of any decent pharmacy," I agree. Holders of degrees who settle in retail business can, if they wish, apply for the research list of the British Pharmaceutical Conference and see whether it contains any subject suited to their spare time.

Poisonings, Common and Uncommon

Your reports of inquests on p. 318 of last week's issue prompt a comment. It was stated at one of these inquests that "no case of iron poisoning had been mentioned in literature" during 300 years; but I have found three such cases without much trouble. One is recorded in your issue of April 5: a baby was said to have swallowed about 100 grains of ferrous sulphate in tablet form. The other two cases are from official statistics for England and Wales for the years 1837 and 1856. There may have been more. For some reason unknown to me the Registrar-General's annual reports for 1841-51 inclusive and 1857-62 inclusive were published with a conspicuous lack of detail on the subject of deaths by poison. It is also to be noted that during about the first eighty years of publication these reports contained a high proportion of deaths from unnamed poisons; this feature has since shown considerable improvement. It is remarkable that death should be attributed to so reputedly harmless a substance as a salt of iron. Another observation is suggested by the reports mentioned: I refer to poisoning by barbiturates. Often, I think, the responsibility rests primarily on prescribers, who order quantities in excess of probable needs. In view of the narrow margin between an average dose and an overdose, this calls for attention. **X-ray**

BIRTHS

THOM.—On August 16, Mercy Densmore (née Robinet), wife of William E. Thom, L.P.S.I., The Kimmage Pharmacy, 151 Lower Kimmage Road, Dublin, S.W.7, of a son.

VAUGHAN.—At Queen Charlotte's Maternity Hospital, London, W.6, on September 11, Rita (née Turner), wife of A. Dudley Vaughan, M.P.S. (a director of Amos Jones (Chemist), Ltd., London, W.C.2), of a son, Nicholas Dudley.

DEATHS

ANDREW.—On September 10, after a prolonged illness, Mr. Charles William Andrew, 2 Durham Road, East Finchley, London, N.2, aged eighty-two. Mr. Andrew qualified as a chemist and druggist in 1887 and as a pharmaceutical chemist in 1889, and had been in business at East Finchley for thirty-five years when he retired in 1939. A correspondent writes: "He was well known among the older chemists in North London; in his activities on behalf of pharmacy he was associated with Messrs. Arthur Jenkin, Herbert Skinner, James Downing, etc. He was a founder member of the North London Pharmaceutical Association and served as its president in 1919-20 and again in 1935-36. Mr. Andrew was honorary pharmacist to the Finchley Memorial Hospital." The funeral service was attended by Messrs. J. H. Spencer (president, North London Pharmaceutical Association), L. Hayward (past-president), J. C. Bolton and other representatives of pharmacy.

BARRETT.—On September 2, William Barrett, M.P.S., 21 Albert Road, Devonport, Devon, aged seventy-three. Mr. Barrett qualified in 1901.

BULL.—On August 30, Mrs. Bull, wife of Mr. B. A. Bull, Ph.C., 133 Musters Road, West Bridgford, Nottingham. Mr. Bull is chairman of the British Pharmaceutical Conference.

BURNETT.—Recently, Mr. James Burnett, M.P.S., Bridge Street, Ballater, Aberdeenshire. Mr. Burnett was a native of Lesmahagow, Lanarkshire, but took over the business of the late Mr. W. Tytler, Ballater, about twenty-one years ago.

DAUKES.—At Worthing, on September 3, Mr. Sidney Herbert Daukes, O.B.E., M.D., formerly director of the Wellcome Historical Museum, aged sixty-eight.

LLOYD.—Recently, Mr. Richard Lloyd, 42 Moy Road, Cardiff, formerly of Cardiff, Glam. Mr. Lloyd qualified as chemist and druggist in 1919.

LONGSTAFF.—On August 29, Mr. Her Longstaff, Fairway, Ghyll Road, Croborough, Sussex, aged sixty-eight.

MASON.—On August 23, Mr. Ernest George Mason, M.P.S., 500 Edgware Road, London, W.2, formerly of Huntingdon, aged fifty-two.

PRINCE.—Recently, Mr. John Prin Lynton, Coast Road, Rhyl, aged seven two. Mr. Prince qualified as a chemist and druggist in 1897, and was in business in Flintshire for nearly fifty years.

READING.—On September 15, Mr. Douglas W. Reading, 55 Grove Road, Worthing, Sussex. Mr. Reading had been representative of Potter & Clarke, Ltd., in the South of England since 1933. During the war, served in the Royal Air Force, rejoining the company in 1945. He leaves a widow and two children.

ROWLANDS.—On September 8, Mr. William Kenneth Stirling Rowlands, M.P.S., Mostyn Street, Llandudno, aged forty-two. Mr. Rowlands, a native of Wrexham, established a business in Llandudno in 1921, moving to new premises in the same street in 1937. He qualified as a chemist and druggist in 1926.

WILLS

MR. ERNEST HARRY JONES, 41 Melbourn Avenue, Slough, Bucks, formerly of Purcells Avenue, Edgware, Middlesex, aged 61, left £1,805, with net personalty £1,745.

MR. JOHN EDMONDSON WOODHOUSE, M.P.S., 28 Clark Street, Morecambe, Lancs., formerly of Anzac House, Whitecroft near Lydney, Gloucs., left £487 15s. 3d.

MR. JOHN MONTGOMERY, M.P.S.N., 145/147 Royal Avenue, Belfast, (of C. J. Montgomery, Royal Avenue, Belfast) left personal estate in Great Britain and Northern Ireland valued at £27,524 1s. 3d.

MR. GEORGE WALTER MANSFIELD, 4 Searchwood Road, Warringham, Surrey, formerly of Whitehalls, Woldingham, Surrey (one of the founders of Wilson & Mansfield, Ltd.), left £51,563, with net personalty £45,582.

MR. JOHN PETER DUNBAR, M.P.S., Rectory Place, Portsmouth Road, Guildford, (a representative of The British Drug Houses, Ltd., and formerly with South Bros. & Barclays, Ltd., Birmingham), left £8,730, with net personalty £8,519.

BUSINESS CHANGES

KORAY, LTD., 25 Hanover Square, London, W.1, have appointed Mr. H. Jacobs as sales manager.

MR. M. GILLESPIE, general manager for Glasgow and district, Boots, Ltd., is retiring (see below).

THE FEDERATION OF BRITISH INDUSTRIES is appointed Mr. W. R. Eadie, I.S.M.A., secretary of its south-western region, with headquarters at Bristol.

MR. F. S. SPILLER, M.P.S., has acquired the business at 843 Wimborne Road,ournemouth, formerly carried on by Mr. K. Phillips, M.P.S.

MR. M. C. GREENING has retired from his position as area manager for International Chemical Co., Ltd., and is now living at Tanfyllin, Montgomeryshire.

ROCHDALE EQUITABLE PIONEERS' SOCIETY, LTD., opened a central pharmacy department and pharmacy warehouse at 13 Yorkire Street, Rochdale, recently.

YORK CO-OPERATIVE CHEMISTS' SOCIETY, LTD., 22 Railway Street, York, have acquired as a pharmacy branch the business at 148 Bishopthorpe Road, York, which was formerly carried on by C. & E. Davies, Ltd.

INTERNATIONAL CHEMICAL CO., LTD., 111, Fenchurch Street, London, W.C.1, have appointed Mr. A. S. J. Painter assistant managing director. Mr. Painter, whose new appointment commences on October 1, is at present general sales manager of Koray, Ltd., 25 Hanover Square, London, W.1.

PERSONALITIES

MR. H. L. WALLACE, M.P.S., 119 Albert Drive, Glasgow, has secured second place in the national final examination of the Incorporated Sales Managers' Association, held recently.

MR. JOHN C. BOLAM, Portsmouth, has been awarded the Umney Memorial Prize for 1947. Mr. Bolam qualified as a chemist and druggist at the recent July examination of the Pharmaceutical Society after studying at Portsmouth Technical College.

MR. GORDON RUSSELL has been appointed director of the Council of Industrial Design, Tilbury House, Petty France, London, S.W.1. Mr. Russell, who has obtained first-hand experience of industrial design developments in the U.S.A. and many European countries, has written several books on industrial design and has broadcast on that subject. In 1945 he was elected a First Fellow of the Society of Industrial Artists.

MR. M. GILLESPIE, general manager for Glasgow and district, Boots, Ltd., whose retirement is announced opposite, has held the position for fifteen years, and has been with the company for thirty-eight years. In recent years Mr. Gillespie's business life has been hampered by arthritis, which has caused him considerable pain, but his employers and colleagues hope that with rest and continued treatment his condition will improve.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, September 22

MERSEYSIDE BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, 56 Lord Street, Liverpool, at 7 p.m. Meeting to discuss programme for coming session.

Tuesday, September 23

LEICESTER BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Haymarket Restaurant, Leicester, at 6.45 p.m. Dinner followed by visit to Palace Theatre.

Wednesday, September 24

LONDON BRANCH, GUILD OF PUBLIC PHARMACISTS. Visit to Dagenham works of May & Baker, Ltd., leaving Bloomsbury Square, London, W.C.1, at 1.15 p.m. Particulars from Mr. S. Powelson Flat 4, 5 Brackley Road, Beckenham, Kent.

SHEFFIELD BRANCH, PHARMACEUTICAL SOCIETY, Metallurgical Club, West Street, Sheffield, at 7.45 p.m. Annual meeting.

Friday, September 26

SCOTTISH SECTION, BRITISH ASSOCIATION OF CHEMISTS, St. Enoch Station Hotel, Glasgow, at 7 p.m. Reading and discussion of short papers.

Sunday, September 28

WORCESTER CITY AND COUNTY PHARMACISTS' ASSOCIATION. Motor-coach outing to Symonds Yat, leaving Corn Market, Worcester, at 1 p.m., and picking up passengers at Belle Vue Terrace, Great Malvern, at about 1.20 p.m. Price, including high tea: Adults 12s. 6d.; children under fourteen years, 6s. 6d. (payable on coach). Application for seats should be made not later than September 24 to Mr. C. E. Gedge, Galen House, Malvern Link.

Monday, September 29

SLOUGH BRANCH, PHARMACEUTICAL SOCIETY, Social Centre, Slough, at 7.30 p.m. Debate on "Are Pharmacy Employees Getting a Fair Deal?" between Mr. E. Skues and Mr. W. S. Benjamin.

WEMBLEY CHEMISTS' ASSOCIATION, Town Hall, Wembley, at 7.45 p.m. Mr. F. C. Wilson (a member of the Council of the Pharmaceutical Society) on "Matters of Moment."

SHEFFIELD BRANCH, NATIONAL PHARMACEUTICAL UNION, Metallurgical Club, West Street, Sheffield, at 8 p.m. Annual meeting.

HARROW BRANCH, PHARMACEUTICAL SOCIETY, is arranging a visit to the Ware works of Allen & Hanburys, Ltd., on Wednesday, October 1. Members wishing to join the party should apply to Mr. H. W. Toms, 21 Hillcroft Avenue, Pinner.

TRADE NOTES

A New Seasonal Product.—Genatosan, Ltd., Loughborough, Leics, give details of trade terms for their new product, Genatosan menthol and wintergreen cream.

Advertising Campaign.—A national advertising campaign is being carried out by the makers of Laurel razor blades. The makers, G. H. Lawrence, Dept. 12, Sheffield, 3, offer price list of their products.

Immediate Delivery.—Delivery from stock at reduced prices of chemists' glass pots and other glass containers is offered in the advertisement of M. J. Fecher, Ltd., 121 High Street, Slough, Bucks.

Ample Supplies Available.—The Armour Laboratories, 27-28 Finsbury Square, London, E.C.3, state in their advertisement that adequate supplies of Glanoid extract hepatitis liq. B.P., are now available.

Packing Materials.—Abbots Wood Wool, Ltd., 324 Gray's Inn Road, London, W.C.1, are in a position to supply wood wool, packing straw, tea chests, cartons, string, etc.

Advertising Campaign.—A Press advertising campaign for Macaulay's lung syrup will commence in national and provincial newspapers in October and continue throughout the winter months.

Seasonal Publicity.—The makers of Barber sun lamps, Barber Electrical Services, Ltd., Bournville, Birmingham, are carrying out a publicity campaign. Details of display material available on application.

Bonus Offer.—The makers of Argotone, Rona Laboratories, Ltd., 159 Finchley Road, London, N.W.3, announce a special bonus offer of "13 to the dozen," which will be withdrawn on October 15. Details are given in this issue.

Prices Advanced.—A. De St. Dalmás & Co., Ltd., Wholesale Chemists, Junior Street, Leicester, announce that the prices of the company's specialities Burnojel and Arthene were advanced on September 8. Details may be obtained from the manufacturers.

Free from Purchase Tax.—Marshall's Proprietaries, Ltd., 110 Cannon Street, London, E.C.4, point out that a statement "plus 100 per cent. purchase tax" which appeared in a recent announcement for Petal Dust, was incorrect, as the product is now free of tax.

Export Brochure.—A list of manufacturers of surgical instruments, equipment and appliances in Great Britain, with illustrated advertisements by the majority of them, has been issued by Surgical Instrument, Equipment and Appliance Export Group, 6 Holborn Viaduct, London, E.

A Local Anæsthetic.—Details are given in their advertisement in this issue by Imperial Chemical (Pharmaceuticals), Ltd., The Ridge, Beechfield Road, Alderley Edge, Manchester, of their procaine hydrochloride, which, it is claimed, is one of the safest and most reliable of local anæsthetics.

Pharmacy Courses.—The prospectus of the fifty-seventh session of the Derby Technical College includes details of full-time day courses for the Intermediate examination of the Pharmaceutical Society. Copies may be obtained from the Principal of the College, Normanton Road, Derby.

Cream Shampoo.—Koko-Maricopas Ltd., 3 Fleet Lane, London, E.C.4, are marketing as Koko cream shampoo a "hair conditioning" shampoo which is described as equally suitable for men, women and children. The preparation is issued in collapsible tubes in cartons attractively printed in two shades of blue. Trade terms and application to the makers.

Ground Tragacanth.—The makers of Red Carnation tragacanth notify the trade that their product is available in four grades to meet all industrial and pharmaceutical requirements. A booklet, "The Story of Tragacanth," may be obtained on application to Kimpton Bros., Ltd., 110 Fleet Street, London, E.C.3.

Headache Balm.—Under the title "Headache Balm," A. E. Stannard, Ltd., Tadworth, Surrey, have introduced a menthol compound for application to the forehead for headaches, etc. The preparation is issued in blue and silver push-up holders in cartons to match, and packed in three-colour display outdoors. Show material is available and trade terms are given on another page.

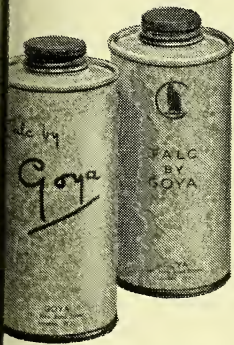
Made in Dundee.—Among exhibitors at a "Dundee-made" exhibition, held in London during the recent meetings there of the British Association for the Advancement of Science, were Lavapine, Ltd., manufacturing chemists (antiseptics, sprays, insecticides, and polishes), and the Expanded Rubber Co., Ltd., (Zote sponges, marketed through Halex, Ltd., London).

Dental Cerate.—British Schering, Ltd., Great Portland Street, London, W.1, have produced a four-page leaflet on their speciality Albucerate (containing 10 per cent. w/w Albucid Soluble). The preparation is designed for packing into potentially septic sockets resulting from difficult extractions or the removal of heavily infected roots. It is available in 1 oz. tubes.

British Exporters to Australia.—The Australian Association of British Manufacturers, 3 Clements Inn, London, W.C.2, invites British manufacturers exporting to Australia to become members of the Association, details of which are available in publications obtainable from the secretary. The Association was founded in 1910 by a group of U.K. manufacturers' representatives in Melbourne to enable British industrialists to speak with a united voice in Australia on matters of common interest.

A New Talcum Powder.—Goya, Ltd., 1 New Bond Street, London, W.1, have introduced a new series of products in the form of talcum-powder made up to match the company's perfumes, namely

Gardenia, Studio, No. 5, Heather and Great Expectations. The powder is packed in the Goya two-colour scheme sifter-tins. Supplies



are available and trade terms may be obtained from the makers.

Cash Prizes for Displays.—The first area competition for window displays of Crookes' halibut liver oil (C. & D., September 13, p. 307), will be held in North London, October 6-18. Entry cards have been sent to all retailers in this area and attending competitors are asked to complete their entry and return it to Crookes Laboratories, Ltd., Park Royal, London, N.W.10. Each window will be inspected by at least two or three judges. Ladies will be included in the panel of judges. Winners will be notified immediately at the end of each area competition and cheques (£40, £20, £10 and consolation prizes) will be despatched at the same time.

Academy-picture Showcard.—A new showcard just issued (first since 1939) by British Cod Liver Oils (Hull & Grimsby),



Ltd., St. Andrew's Dock, Hull, Yorks, reproduces in full colour a leading war-time Royal Academy picture, the work of R. Sinclair Smith, A.R.C.A. In it the artist has immortalised the nursery use of cod liver oil.

A PHARMACIST'S ANTHOLOGY

THE Farmacia di San Gennaro was also a favourite haunt of mine when I was afraid to be alone. It was open night and day. Don Bartolo was always on his legs concocting his various mixtures and miraculous remedies from his row of seventeenth-century Faenza jars with Latin inscriptions of drugs, mostly unknown to me. A couple of large glass bottles with snakes and a foetus in alcohol adorned the sideboard. By the shrine of San Gennaro, the patron saint of Naples, burned the sacred lamp, and among the cobwebs in the ceiling hung an embalmed cat with two heads. The speciality of the Farmacia was Don Bartolo's famous anti-choleraic mixture, labelled with a picture of San Gennaro on one side and a skull on the other with the words "Morte alla colera" underneath.

From "The Story of San Michele,"

by Axel Munthe.

INCREASED EXPORTS PLAN FOR 1948

THE Government's plan to increase exports during 1948 was announced by the President of the Board of Trade, Sir Stafford Cripps, on Friday, September 12. The following are abstracts from Sir Stafford's statement:

Our present unbalance is in the region of £600 million a year upon the basis of our estimated import and export level before any of the present special adjustments had been made. We have been living upon borrowed money and to that extent have failed to provide our own standard of living out of our own productive efforts. It is that very large prospective gap of £50 millions a month that we have got to fill as quickly as we can and if possible before our ultimate reserves of foreign exchange and gold are run down below the danger point. We have very little time and very small reserves with which to accomplish this very big job.

Immediate Savings

You have already seen the announcements as to the immediate savings. These are not necessarily final — their ultimate extent must obviously depend upon the speed with which and the degree to which we can build up our exports. The present list is provisional in the sense that it depends upon what we can do in the export field as to whether the cuts will have to be increased or may be lessened in the course of time. These cuts are calculated—compared to our estimates for the coming year—to save £228 millions out of the £600 millions — if the present price level continues, for the estimate of £600 millions deficiency is based on the present price level Therefore, assuming the continuance of the present price level for imports, we have still to make up £372 millions or rather over £30 millions a month by increased exports. Our immediate production problem for export, therefore, comes down to the need to supply some £31 millions worth of goods a month in addition to what we have been currently supplying. The average of our current exports—excluding the figure for the month of July, which is always exceptionally high—is round about £93 millions a month, so that an extra £30 millions means an increase of about one-third. That, be it remembered, is not to balance the imports we need to maintain our standard of living as it was at June 30 last, but to balance the

reduced imports after the cuts upon which we have so far decided. That is to say assumes a continued cut in the meat ration and no petrol for private motorists, to take only two examples.

Proposed Economies

If we are to produce more exports we shall need materials, labour and capacity to produce them. Where are these to come from? Since all our resources are fully employed they must come from cutting down in some other sector.

To find the manpower both for this purpose and for the purpose of developing our import saving industries and our agriculture we are making additional cuts in the Armed Forces, we are proposing to reduce the manpower providing for less essential consumption, and we are reviewing the whole capital expenditure programme in this country.

We are doing the last for a second reason also. Some substantial part—I would put it at £50-60 millions — of our additional exports must take the form of increased export of capital goods. Many countries in the world today are buying capital goods in preference to consumer goods and will demand such supplies in any bilateral agreements they make with us. Some part of this should come from additional output. But it must mean a substantial postponement in the flow of new machinery and equipment to our own industries To illustrate our intentions let me say this. It may well prove necessary in order to accomplish our export task to cut down capital investments of all classes in this country by £200,000,000 a year; in that event we should not hesitate to take the necessary steps to do so.

Targets for Industries

We have made an extensive and careful inquiry into all the main industries of this country to see what export task we could realistically place upon them and the result is in the table which is being circulated amongst you. As I have said, this is our estimate and cannot in the nature of things be rigid, but until it is superseded by arrangement between the Government and any particular industry it will stand as a demand upon that industry to achieve that task as a first priority in its production. Detailed matters have been or will be examined with the various industries con-

ned, but I would emphasise that this task tails every manufacturer becoming port-minded. Many who have hitherto voted themselves to the home market exclusively or almost exclusively will have to seek foreign markets energetically. In some cases it will be possible to arrange for exports by an industry as a whole; in others we shall have to deal with the individual firms. Here I must mention the difficulties that will undoubtedly arise where particular firms or whole industries find themselves unable to sell abroad their export quota. In such cases we cannot just allow such goods to be diverted to the home market because of the labour and, if possible, the materials, will have to be used in some alternative form of export if we are to maintain our required level of exports. It will mean, therefore, in such cases, that unless new and appropriate markets abroad can be found, the materials and labour will have to be withdrawn from that particular form of production for use in more profitable forms of export production.

Direction of Exports

I now come to the question of direction of our exports to foreign markets. Here our principle is to use our exports for the purpose of obtaining the immediate supplies we need from abroad. We cannot afford to use them for luxuries or for piling up sterling balances in this country. So we must direct our exports to those countries from which we must draw our major supplies. We desire, however, to impose as little compulsion as possible—though the situation is so urgent that the possibility of compulsion must remain in the background. We do not want to re-embark upon a complex system of licensing exports; we would rather rely upon a general control by agreement and we feel sure that except in a minimum of cases we shall get the necessary help and co-operation from the industries of this country. Here I emphasise again that this export task *must* be performed and that part of the task will be the correct direction of exports based, I hope, upon understanding and agreement between the Government and industry.

We must not forget in our anxiety to plan and carry out production that the sale of our exports is as important as their production. The beneficial operation is not completed till we get the price for the exported article, and we must therefore concentrate upon the saleability as well as the production of our export goods.

Planning Committee

A Planning Committee has been formed on which will be represented all the Production Departments, the Treasury, the Foreign Office and the Commonwealth Relations and Colonial Offices and the Planning Secretariat, and this will be the guiding Committee for the new export drive. There will be subcommittees dealing with the more detailed matters. We propose at all stages to consult with and inform industry of all that we are doing as we are convinced that it is only by the closest association and integration of the whole team of administration, employers, managers and workers that we shall achieve our objective. We shall be discussing the task of the individual industries with their representatives with the object of helping them in every way we can. I hope that we shall be able to make speedy progress with the setting up of Development Councils in those industries where such bodies have been recommended as I am certain that they will form an admirable channel for pushing the export drive.

Supplies of Basic Materials

So far as materials are concerned the most important are coal and steel — and these two are, of course, closely inter-related. I will not deal in detail with coal, about which so much has already been said and written, except to say that coal is not only vital to our own production programme but a measure of export to Europe is also vital to the rehabilitation of the eastern hemisphere and the reduction of its dependency upon the western. However much the supplies of coal fall short of our total requirements, it is vital that sufficient should be provided for the main export industries to enable them to achieve their task, even if this were to mean that we had to go somewhat short elsewhere. We require 24½ million tons for industry for the winter six months and this we must arrange to get Other materials, too, are important, but except for packaging materials of all kinds, their use is not so widespread. All these materials must, of course, similarly be made available for the export programme in the needed quantities. With packaging materials and containers there will be particular difficulties to which special attention must be paid. On the one hand we must make certain that we can pack our exports properly and on the other we must exercise the strictest economy.

EXPORT APPEAL TO COSMETICS INDUSTRY

The following is the text of a personal letter from the Chairman of the Toilet Preparations and Perfumery Manufacturers Federation of Great Britain on the Government's Export Plan for 1948.

MR. MADDEN, vice-chairman, and I had the privilege of attending, on behalf of the Federation, Sir Stafford Cripps' meeting at Westminster on Friday, September 12, when he explained the Government's plans in regard to export. My purpose is simply to notify you of the target which Sir Stafford has set for our own industry. He has taken as the "standard" exports during the last three months of 1946, which averaged £340,000 monthly, and has called upon us to reach by the middle of 1948 a monthly average of £400,000, and to sustain it at that level until at least the end of 1948.

This year our exports—for the first seven months—have averaged £315,000. With the exception of the short month of February, our monthly rate has risen steadily, reaching £371,000 in July. We thus seem to be more than half-way towards our target but it will take all our efforts and more to get there and stay there. This year's figures to date are in fact a little illusory; July is normally the best month of the year and undoubtedly this year it is artificially high as a result of efforts to get goods into such markets as India and Egypt before they shut down. Unless we go all out to get every possible bit of export business, we must expect the figures to fall and I appeal to you all, not to let this happen, but to help the industry keep up its fine record.

Sir Stafford Cripps promised individual consultation with industries and he gave many other assurances—e.g., assistance in getting all necessary materials (Yes—I know most of you are at once saying to yourselves—what about containers!). He also promised special encouragement to industries whose products have a high "conversion" value—i.e., which produce a high return in foreign exchange for the labour and cost involved—and we stand very high indeed in this respect. It will be one of my last duties before I lay down office as your Chairman to represent you at these consultations, and the target level which has been set us will be the first item to be discussed. Taking into account the increasing contraction of our overseas markets, due largely to the shortage of foreign exchange in those other countries also, our target is a stiff one. But I propose, on your behalf,

to accept the challenge of the President of the Board of Trade and indeed to assure him that we are determined to reach that target earlier than the date he sets us and thereafter to improve on it—providing always the Board keep their pledge to secure for us the materials we need.

We shall be reporting to you—probably at the Annual Meeting on October 23—of the results of our discussions with the Government. Meanwhile I would like to end this letter with an urgent appeal to every member to put all he has into his export trade. If you are new to export business and if you want help in any direction write to me or the Secretary.

LEONARD J. MATCHAM.
Chairman of the Council

DRUG TRADE TARGETS

Drug trade targets abstracted from the Government's schedule of export targets for industry in 1948 (see p. 338).

£ Million Monthly Rates.

Industry	Actual 4th Qtr. 1946	Target Mid 1948	Target End 1948
	%	%	%
<i>Chemicals, Drugs, Dyes, Etc.</i>			
Chemicals	3.14	3.75	5.42
Proprietary medicines ..	0.43	0.5	0.5
Other drugs and medicines	0.97	1.0	1.25
Dyes and dyestuffs ..	0.65	0.85	
Paints, pigments, dis- tempers	0.41	0.50	
Varnishes and lacquers ..	0.06		
Printer's ink	0.07	0.10	0.15
Other products	0.12	0.15	0.15
Total	5.85	6.85	7.50
Percentage of 1938 ..	161%	188%	206%
<i>Razor blades</i>	<i>0.13</i>	<i>0.15</i>	<i>0.15</i>
Sensitized photographic materials	0.255	0.25	0.30
Scientific instruments ..	0.475	0.52	0.55
Gas and chemical plant ..	0.075	0.10	0.12
Fuel oils & petroleum, etc.	0.32	0.60	0.60
Other oils, soap, wax, etc.	0.20	0.18	0.20
Scientific glassware ..	0.06	0.06	0.07
Glass bottles	0.05	0.05	0.05
Fancy goods	0.07	0.09	0.10
Gelatine and glue ..	0.04	0.04	0.05
Toilet preparations ..	0.34	0.40	0.40
Polishes	0.14	0.30	0.35
Synthetic resins	0.31	0.35	0.35
Combs	0.1	0.1	0.1

INSURANCE ACT DISPENSING

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South-eastern Pricing Bureau. — The report of the Joint Committee for Pricing prescriptions (South-eastern division) for 1946, published recently, includes the prescription statistics given below. The report states that, with few exceptions, chemists under contract to constituent committees agreed to a system of assessing

prescription prices on the basis of the July average of each chemist's account, subject to the individual pricing of expensive prescriptions, as a means of assisting the Bureau to overtake arrears in pricing. The prescriptions of chemists who did not agree to assessment were priced individually in the usual way.

Area	Number of Prescriptions	Ingredient Cost	Dispensing Fees	Average Ingredient Cost	Average Dispensing Fee	Number of Insured Persons	Frequency per Insured Person	Average total cost per insured Person
Brighton ..	258,484	£10,104	£6,674	9.4d.	6.2d.	62,704	4.1	64 d.
Canterbury ..	44,680	£1,530	£1,145	8.2d.	6.2d.	9,630	4.6	66 7d.
Canterbury ..	410,943	£14,312	£10,702	8.4d.	6.2d.	99,882	4.1	66 7d.
Canterbury ..	88,273	£3,238	£2,315	8.8d.	6.3d.	21,346	4.1	62.4d.
Canterbury ..	97,103	£3,976	£2,583	9.8d.	6.4d.	22,960	4.2	68.6d.
Canterbury ..	149,530	£6,943	£4,001	11.2d.	6.4d.	34,524	4.3	76.1d.
Canterbury ..	2,047,711	£75,663	£53,462	8.9d.	6.2d.	510,526	4.0	60.7d.
Canterbury ..	3,795,887	£138,069	£99,753	8.7d.	6.3d.	967,007	3.9	59.0d.
Canterbury ..	297,715	£11,656	£7,793	9.4d.	6.3d.	89,105	3.3	52.4d.
Canterbury ..	1,729,100	£72,150	£45,547	10.0d.	6.3d.	494,772	3.5	57.1d.
Canterbury ..	375,704	£14,838	£9,813	9.5d.	6.2d.	97,624	3.8	60.6d.
Canterbury ..	316,545	£13,727	£8,376	10.4d.	6.4d.	85,040	3.7	62.4d.
1946 Total	9,611,675	£366,205	£252,163	9.1d.	6.3d.	2,495,120	3.9	59.5d.
1945 Total	8,722,863	£293,798	£223,205	8.1d.	6.1d.	2,262,929	3.9	54.8d.

TRIBUTE TO FIRST WOMAN PRESIDENT

A DINNER to celebrate the election of Mrs. K. K. Irvine, M.B.E., as the first woman president of the Pharmaceutical Society was given in London on September 10 by the National Association of Women Pharmacists. Miss DOROTHY JONES (president, N.A.W.P.), proposing a toast to Mrs. Irvine, said that for 106 years the Pharmaceutical Society had been led by a succession of very fine men. When women were first admitted to membership of the Society they had been forbidden to use the same entrance as the men at 17 Bloomsbury Square, and were obliged to enter by the back door.

Mrs. IRVINE, recalling her apprenticeship days of some forty years ago, said she remembered grinding drugs, rolling thousands of pills, spreading plasters, percolating tinctures, and struggling with emulsions and ointments, methods of gaining experience which were not always open to the apprentice of today. Women pharmacists owed a lot to the small band of qualified women who had fought so strenuously about seventy years ago to obtain membership of the Pharmaceutical Society. The Council of those days had declared that the admission of females was "neither necessary nor desirable," but the persistency of the women had eventually won the day.

Since the first woman pharmacist qualified in 1869, women members had been noted for their persistency on behalf of pharmaceutical progress. Their number was increasing not only in Britain but in other countries. At the recent meeting of the International Pharmaceutical Federation in Zurich, said Mrs. Irvine, she had met women pharmacists from at least ten countries including Turkey, Palestine and Iran.

Miss C. MOZLEY-STARK then proposed "The Pharmaceutical Society." Mr. H. C. SHAW (vice-president) said in reply that in the next generation there would probably be more women than men pharmacists, and they would have more influence in the business of the Society. He appealed to them to take a long range view so that the next generation of pharmacists would be better than the present. They must avoid being sectional and developing into "antibodies." A toast to the visitors was proposed by Miss M. C. ISLIP, Mr. H. TREVES BROWN responding. During the evening the guests were entertained by songs from Mr. J. M. Atkinson (chairman, Harrow Branch, Pharmaceutical Society), accompanied on the pianoforte by Miss M. E. Plear.



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DL. CXLVIII SEPTEMBER 20, 1947 NO. 3526

An Address of Confidence

R. B. A. BULL, addressing the British Pharmaceutical Conference during his second term of chairmanship (see p. 346), spoke with confidence of the future of the pharmaceutical profession. He could not subscribe, he said, to the school of thought which looked with alarm on "the changing face of pharmacy," and boldly exhorted the profession to accept willingly any changes which made for progress in the healing art however much they might interfere with preconceived ideas.

His address, which was fully annotated with references from a store of pharmaceutical knowledge acquired during his lifetime's service in pharmacy in several countries, was complementary in many ways to his speech of a year ago. It tended to be more dialectical, concentrating less on the techniques of pharmacy and more on the forces, sometimes seen only in retrospect, which are moulding the profession to a new and not yet distinct shape. The old poly-pharmacy, with its multiplicity of ingredients, he said, had given place to medicines which contained only one, or a small number, of active constituents. Although compounding had in some ways become simplified, the materials had become more numerous and complex, and the requirements for the compounded medicines more stringent. He advocated a "progressive education policy" to cope with this expanding field of medicinal substances, and gave what was perhaps the first recommendation of its kind to come from the Con-

ference chair, that an acquaintance with nuclear physics and isotope methods of studying the action of drugs, was desirable in the pharmacist. The pharmacist's value to society was in the exercise of his special knowledge and experience, and there was still ample scope for that. Particularly in view of the new National Health scheme, pharmacists' service should be based on the truism, he concluded, that what is best for the patient is best for the pharmacist providing it. Pharmacists of experience will echo the Conference chairman's view that there need then be no fear of challenge to their professional rights.

Twelve Months' Researches

FOLLOWING a remarkable and perhaps unprecedented succession of scientific conferences in Britain in 1947, the Science Sessions of the British Pharmaceutical Conference come as a tailpiece. The chemists of many foreign lands have returned to their laboratories after the London International Congress of June. The members of the British Association have deserted Dundee, some of them looking in, perhaps, at the Edinburgh music festival on their way back to the land of the Sassenach. And the delegation of members of Council of the Pharmaceutical Society, augmented by other pharmacists who considered their journey really necessary to make the largest British contingent ever to participate in a conference of the International Pharmaceutical Federation, has returned from Switzerland, some of its members leaving again almost at once for Torquay.

How do the Science Sessions of the Conference compare with the recent national and international presentations of papers? Does the work recorded there seem trivial or parochial by comparison? We think not. The list of titles suggests that the year's work of chemists, pharmacognosists and others in the laboratories of pharmaceutical firms or institutions, compares favourably with the output of previous years, and bears comparison, making allowance for its special character, with the papers read at the conferences at London, Dundee and Zurich. Not one of the papers is a mere

review or compilation of existing knowledge, but represents original work sincerely carried out either to elucidate a specific problem or else to extend the boundaries of knowledge for a concrete purpose.

The two dozen or so papers presented may be considered in a number of groups. There are those, first, which are like instalments of a serial story, with further thrilling episodes to be expected at future conferences. In this category are the papers on penicillin which, in solving practical problems that have arisen in manufacture or use, reveal possible new difficulties that have yet to be encountered. Professor Brindle and Miss Keepe demonstrate that the type of container at present used for penicillin powders is unsatisfactory, because it does not overcome the hygroscopic nature of the contents, and thus permits a greater or less degree of deterioration. What constitutes the perfect container has yet to be suggested. Mr. Woodard shows that the calcium salt of penicillin is less hygroscopic than the sodium salt, and also slower to deteriorate in a moist atmosphere. Miss Johnson and Mr. Lerrigo show that, while yellow penicillin is able to withstand boiling for about five minutes, the crystalline and freeze-dried varieties decompose on boiling, while crystalline penicillin G solutions are unstable in the presence of glycerin or ethylene glycol.

Work on antiseptics has taken various forms. Messrs. Davies and Davison throw doubt on the margin of safety achieved with chlorocresol in sterilising aqueous solutions. Professor Berry and Mr. Michaels suggest an analogy between the action of an antiseptic and a first-order chemical reaction. Dr. Hartley discovers properties worthy of further investigation in a new antiseptic, parachlorophenyl glycerol ether, which, however, he finds is certainly unsuitable for use in preparations intended for oral use.

In other papers which are rather of the short story type, in that they record researches complete in themselves, three which are on pharmacognostical subjects include two in which Dr. Wallis has collaborated. With Mr. Sanyal he finds

that both Indian and European varieties of valerian have a high yield of oil in the root, which should therefore be included with the herb when gathered for extraction; and with Mr. Santra he describes how, by examining for sclereids, it can be ensured that no clove stalk is present in powdered clove (sclereids are not present in the bud). The properties of a crystalline constituent of a herb used medicinally in Egypt are described by Messrs. Fahmy and Abu-Shady.

Recent legislation controlling the labelling of foods is reflected in two out of three papers dealing with vitamins. Mr. Elvidge examines various non-biological methods for assaying vitamins B₁ and B₂ and applies them to common vitamin preparations. Miss Williams and Dr. Woke describe a simplified method for the fluorimetric analysis of aneurine in malt extract. In a third paper on aneurine, Mr. Daglish discusses its adsorption from solutions.

Dr. Bullock, whose interest in spray- and freeze-drying is well known, records findings that should prove valuable to other workers concerned with enzyme and bacterial action. He finds that lipase is thermolabile in proportion to its moisture content and to the freedom with which the moisture can escape; and that when vegetative bacteria are spray-dried, almost 100 per cent. of living organisms but only about 10 per cent. of spores of *B. subtilis* are destroyed when suspensions are spray-dried. About 90 per cent. of living organisms are destroyed by freeze-drying.

To conclude this brief review of the science papers, mention must be made of Mr. Whittet's finding that kiton green can be autoclaved without apparent deterioration or increase of toxicity; and of work by Mr. Somers on the comparative properties of three local anaesthetics. The symposium session, which proved so successful a feature last year, is this time devoted to new emulgents and ointment bases. It will, like the discussion on the science papers, be as fully reported in these columns as the paper stringency allows. To make this possible the abstracts, the first of which are published in this issue, are rather shorter than in previous years.

Britain's Export Policy

SIR STAFFORD CRIPPS' statement on the government's export proposals for 1948 (see p. 338) makes it painfully clear that, if the nation is to avoid economic collapse and at the same time maintain even the present austerity standard of living, exports must be increased in 1948 by at least one-third. The debit balance of our international trading account now stands at approximately £600 millions a year. The government is making, or proposing to make, economy cuts in capital expenditure, in the personnel of the Forces and in other directions, to the tune of £228 millions, leaving an adverse balance of £372 millions to be met by additional exports. Our total exports, including re-exports, of all classes of merchandise in 1946, were valued at £962 millions. The increase in shipments now called for is an additional one-third of this total. Exports of "Chemicals, drugs, dyes, etc." in recent years were as follows: 1938, £22.28 millions; 1945, £38.23 millions, and 1946, £66.05 millions. For the first half of this year exports of this group were valued at £30.97 millions. The Government's proposals would make the 1948 target for "Chemicals" approximately £90 millions.

Essential Raw Materials

The first question that will arise in the minds of manufacturers is whether they will get adequate supplies of coal and power and other essential raw materials. On this point Sir Stafford Cripps indicated that industry will receive $24\frac{1}{4}$ million tons of coal for the six winter months. We assume from this that in future industry is to have first claim on supplies of this and other power products such as coke, diesel and fuel oils and electric power. Shortages of many other raw materials and components will also have to be met. The cuts in capital expenditure to be affected by the Government should release some materials for use in export industries. The removal of shortages of materials and components, which, in the past have made it impossible for industry generally to produce up to its maximum, is the first essential step to the success of the plan now put forward for

the further considerable increase of exports.

Every industry has been given an export target for 1948 (see p. 340) and in referring to these targets, Sir Stafford Cripps said "I would emphasise that this task entails every manufacturer becoming export minded. Many who have hitherto devoted themselves to the home market exclusively, or almost exclusively, will have to seek foreign markets energetically" "unless new and appropriate markets abroad can be found, the materials and labour will have to be withdrawn from that particular form of production for use in more profitable export production."

In general, the pharmaceutical, chemical, drug, perfumery and cosmetics and other allied industries are "export minded," with this side of their business highly organised. The success of their efforts in not only quickly reviving their pre-war overseas trade but in effecting substantial increases in shipments of their manufactures has more than once been favourably commented on by Government spokesmen. The aggregates achieved by the "Chemicals" group have been a notable feature while the perfumery, toilet preparations and cosmetics industries have been given an additional home trade quota as a reward for their record post-war shipments. There are, of course, a limited number of manufacturers in some sections of the chemical and drug trade who do not appear to have concerned themselves with export trade; no doubt they will take due notice of the warning given by Sir Stafford Cripps.

To what extent the pharmaceutical, drug and allied trades will succeed in reaching the still higher export targets now planned, will, in our opinion, largely depend on factors outside their control, chief of which will be adequate supplies of fuel and power and other basic materials, components, packaging, etc. Conditions for export trade in 1948 may or may not be favourable, although the world's markets are hungry for goods, and competition may be more in evidence. Nevertheless, on quality and value, British chemicals, drugs, medicines, perfumery, cosmetics and all the other allied goods will continue to hold their position in the world's markets.

BRITISH PHARMACEUTICAL CONFERENCE 1947

THE CHANGING FACE OF PHARMACY

In his second address as chairman of the British Pharmaceutical Conference, Mr. B. A. Bull, Ph.C., surveyed, at the eighty-fourth meeting of the Conference at Torquay on September 16, developments in pharmaceutical methods and achievements during recent years.

I KNOW there are pharmacists who look with alarm on the changing face of pharmacy and wonder whether its essential make-up is being so altered that it will soon no longer be correctly described by the title "pharmacy." To this school of thought I cannot subscribe.

We must accept, willingly, any changes which make for progress in the healing art however much they may interfere with our preconceived ideas of what constitutes pharmacy. In examining the factors which have influenced this changing face of pharmacy it is certain that the following factors, which I shall consider later, have played a major part:—

(1) The development of pharmaceutical chemistry.

(2) Improvements in methods of standardisation, and the wider scale on which they are employed.

(3) The large-scale production of pharmaceutical preparations in regular demand.

(4) The altered forms in which medicinal products are presented and used.

(5) Increased knowledge of the properties of materials we are handling.

Development of Pharmaceutical Chemistry

The isolation of morphine in 1806 opened up a wide field in the separation of active principles from materials of vegetable and animal origin—materials which can be prepared as pure substances, uniform in composition and in activity. Perhaps the most outstanding result of development of this type of work was the establishment

of the quinine industry, giving a measure of protection and relief to millions of people exposed to malaria infection. The development of organic chemistry and the synthesis of carbon compounds at this time made possible the production of new compounds

some of which were found to have therapeutic properties. Later, when analysis had opened the way to knowledge of the structure of compounds, and methods of building up groups had been discovered, it became possible to produce synthetically substances identical in constitution and activity with naturally occurring substances, and substances which simulate the activity of natural compounds, or which have other therapeutic properties. In this way new classes of medicaments, treated at first as curiosities, gradually become everyday items wherever the dispens-

ing of medicines takes place.

The development of pharmaceutical chemistry has given us:—

ALKALOIDS AND GLYCOSIDES, and synthetic compounds having similar properties.

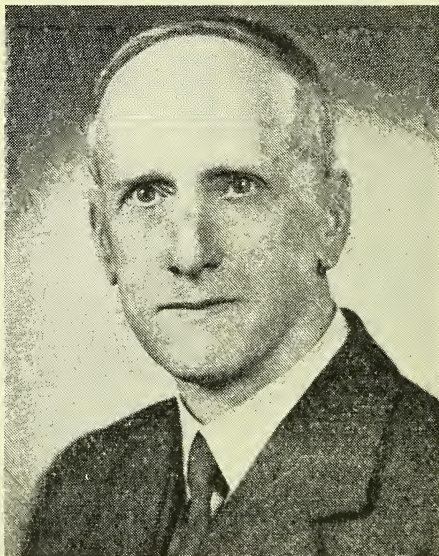
SYNTHETIC ANTIPYRETICS, such as acetanilide, phenazone, aspirin and phenacetin.

HYPNOTICS AND ANÆSTHETICS, such as the barbiturates and benzamine.

ANTISEPTICS, such as substituted phenols, chloramine, flavines.

ORGANIC ARSENICALS.—Examples of early advances made in chemotherapy.

HORMONES, AND SYNTHETIC COMPOUNDS WITH SIMILAR PROPERTIES.—The first isola-



Mr. B. A. Bull, Ph.C.

on of a hormone, that of adrenaline, was the result of Takamine accidentally spilling ammonia into a concentrated suprarenal extractive. Insulin was later first prepared in a form suitable for use by Banting and Best, and within recent years we have had the sex hormones and the synthetic compounds having similar properties to sex hormones.

VITAMINS—NATURAL AND SYNTHETIC.—A wonderful story of tracking down the active material, of obtaining more and more potent extractives and of untangling the confused complexes, of isolating pure substances and eventually of synthesising many individual vitamins.

SULPHONAMIDES.—A whole range of sulphonamides has been elaborated, some having specialised uses and others improving on the original sulphanilamide, either by lessening some of its undesirable qualities or by increasing the ratio of curative effect to toxicity. The sulphonamides marked a great advance in chemotherapy.

ANTIBIOTICS.—Knowledge of the existence of substances having bacteriostatic properties goes back for the best part of a century. The brilliant work of Florey and Chain, and their colleagues, brought to fruition during the war the production of penicillin, with its life-saving possibilities. Continued research has done much to help in the production of penicillin of higher unit activity, with uniform action, and increased stability. Other antibiotics are under active investigation, but it is perhaps not out of place here to register a view that much harm is done to the proper development of these new medicaments by writers of popular articles in the lay press, and appeals over the radio, raising false hopes before time has been allowed for the results of the necessary extensive trials to be properly assessed.

Improving Standards

The scientific application of chemistry, physics, bacteriology and pharmacology has enabled tests to be devised and specifications to be laid down so that pharmaceutical preparations can be issued which are uniform in action and free, within certain limits, from deleterious materials. This limits the preparation and control of many potent preparations to the specialist equipped with the necessary facilities and apparatus. It is pleasing to note that there is now a greater readiness to set up approved standards of unitage based on international agreement.

The making of tinctures and ointments,

the massing, rolling, cutting and coating of pills, and even the making and spreading of plaster masses were formerly everyday operations. However much one might wish to see those days return, I think we must recognise that they have gone forever. The need for uniformity, the trend for increasing standardisation, which is both desirable and attainable, the operation of the excise tax on spirits, and the complicated apparatus often involved in production and control are now forcing us to accept the position that a wide range of other pharmaceutical preparations can also best be made on a manufacturing scale by chemists, pharmacists and pharmacologists specialising in the work.

ANTIMALARIALS.—Mepacrine and pamaquin, which were essential when war cut off supplies of quinine, have been reinforced by the advent of other effective antimalarials such as Paludrine, developed in this country, and chloroquine (SN 7618) developed in the U.S.A.

We are beginning to be able to get some guidance on the bearing which chemical constitution has on therapeutic action, and we are getting nearer that vision of the future when the chemist may be able to build up substances having any particular curative properties which we desire, and free from undesirable effects which we wish to eliminate.

Altered Form of Medicinal Products

In 1843 when William Brockedon applied his method of compressing the graphite of his native Cumberland in the manufacture of black lead pencils, to the preparation of "compressed pills" of simple medicaments such as bicarbonate of potash, it is pretty certain that no one foresaw the great part the development of that application was to play in pharmaceutical practice, and the world-wide acceptance of the idea of administration and use of medicinal products in the form of tablets. In a similar way the reception of ready-prepared hypodermic solutions was not so enthusiastic that anyone could foresee the present vast extension of the use of pharmaceutical products specially prepared for use by injection.

The publication and recording of fresh experimental data, a field in which this Conference has played a useful part, makes available information which helps us to prepare pharmaceutical preparations in their most suitable form. Keeping qualities have been studied and as a result it is now possible to lay down conditions for the

preparation and storage of pharmaceutical preparations which add materially to their keeping qualities.

The action of preservatives has been studied and there are available a range of bactericides, fungicides and anti-oxidants which, if correctly used, give the possibility of the prevention, or retarding of, deterioration of certain pharmaceutical preparations. The development of knowledge of the part played by hydrogen ion concentration has made possible the adjustment of this factor in many preparations in which it may influence stability, compatibility or the growth of fungi or bacteria. The study of tonicity has given guidance to the means of preventing excessive osmosis in the use of some preparations, with a consequent lessening of pain. Fresh data has been accumulated in the field of sterilisation, but much as has been done, there is an ever-widening scope for further work.

It is desirable that the pharmacist should have at least a nodding acquaintance with serums and vaccines, diagnostic reagents and their technique, and even of the development of the atom fission physics which provides the isotope tracer elements now being used in the study of the action of medicinal preparations. And so the picture unfolds, the old polypharmacy with its multiplicity of ingredients in a compound medicine has given place to medicines which contain one or a small number of active constituents. But whereas the old-time pharmacy drew its materials, in the main, from inorganic salts and drugs of botanical origin, our present-day pharmacy relies on medicaments drawn from a much wider field. Although compounding has in some ways been simplified, the materials used in compounding have become more numerous and more complex, and the requirements for the compounded medicines have become more stringent.

"A Good Pharmaceutical Citizen."

The widening of the field from which our working materials are drawn, the increasing complexity of some of those materials and the need for their standardisation has increased the opportunities for pharmacists and members of allied professions who specialise in the production of standard pharmaceutical and medicinal preparations. It has created opportunities for pharmacists on the control and development sides and it has increased the opportunity for research work. With increased opportunities have come increased responsibilities, and it is the duty of the pharmacist to bring himself into line with

the changes in applied pharmacy. This involves acceptance of a progressive education policy, providing knowledge and experience in the wider field. In the new pharmacy it is more important than ever that basic principles should be understood and that we should not expect to get to the top by high-speed lift. We ought not to be satisfied to train pharmacists of the middle twentieth century on a basis which would be appropriate for the beginning of the century or even later. To be a good pharmaceutical citizen, doing credit to one's calling, the new conditions emphasise the desirability in pharmacy, as in other walks of life, of knowing something about everything and everything about something.

New Pharmacopœia

I feel safe in saying that the new British Pharmacopœia will follow the trends I have outlined. It will continue the tendency seen in recent pharmacopœias, and will be still more a book of standards, and still less a formulary. A study of omissions will be of interest and will, I am sure, emphasise the increasing insistence on proved therapeutic action of each of the materials retained.

Closely following the issue of the new Pharmacopœia, we are expecting a new British Pharmaceutical Codex, and in the study of these two books will come the opportunity for many pharmacists to reassume the rôle of students and get a renewed interest in the essentials of their calling.

There is much that is left to the practising pharmacist in the exercise of his special knowledge and experience. Dispensing cannot, in the main, be mass-produced, and with the coming into force of the new National Health Service it is likely that prescribing will tend to range more freely over a wider field. In addition to his normal dispensing, the keen pharmacist can do much in equipping himself to deal with all the non-stock items of tablets, emulsions, ointments, injections and sterile preparations required for urgent prescription work. Here he is at no disadvantage, compared with the manufacturer. He should keep up to date with knowledge concerning the new products coming into use, and be able to give to medical men much appreciated information as to their properties and the best form of administration. Our service must be based on the truism that what is best for the patient is best for the pharmacist providing it. We need not then fear any challenge to our right to perform it.

BRITISH PHARMACEUTICAL CONFERENCE 1947

CIVIC RECEPTION AND OPENING SESSION

THE proceedings of the British Pharmaceutical Conference, 1947, opened at Torquay on September 15 with a social event, when the delegates and visitors were the guests of the Mayor of Torquay, Alderman A. J. Allams, at a civic reception held in the Marine Spa. Some four hundred and fifty delegates and visitors arrived punctually to be greeted by the mayor and mayoress, and by Councillor and Mrs. T. Reeve Taylor (deputy mayor and mayoress), Mrs. J. K. Irvine (president, Pharmaceutical Society) and Mr. B. A. Bull (Conference chairman). The event was described by a local dignitary as "the best dressed gathering seen in Torquay for many years." After the official welcome, the mayor was first to take the floor in the dancing which followed. He was soon joined by members of the Society's Council, authors of papers to be read during the science sessions, representatives of local branches of the Society, and the numerous lady guests. For those who did not wish to dance a balcony was set aside for card-playing. The evening's programme included a number of novelties, and between dances a performance was given by a "telephonic ventriloquist." The celebrations continued until 12.30 a.m.

Formal Opening

The formal opening of the Conference, presided over by Mr. B. A. Bull, took place at 10 a.m. on Tuesday, September 16, at the Marine Spa. Among those on the platform were Mr. H. Holmes (chairman, Torquay Branch, Pharmaceutical Society), the mayor and deputy mayor of Torquay, Mrs. J. K. Irvine (president, Pharmaceutical Society), and Dr. G. R. Boyes and Mr. H. Treves Brown (Conference secretaries). Also among the platform party were Dr. F. C. Hampshire, Professors H. Berry and H. Brindle, Dr. T. E. Wallis, Messrs. J. F. Humphreys-Jones, J. C. Hanbury, G. R. Knox Mawer, F. G. Wells, N. Evers, H. Deane, R. R. Bennett, Peter Irvine, H. N. Linstead, F. Hartley and R. Maxwell Savage, Miss M. C. Islip, and Madame H. Cellier (secretary, *Ordre des Pharmaciens*, Paris).

MR. B. A. BULL first called on the mayor, ALDERMAN A. J. ALLAMS, J.P., who said that it had been a great pleasure to have shaken hands with so many pharmacists

at the civic reception the previous evening. Torquay was accustomed to being chosen as the location for such conferences. The town's season had started in April with a conference of licensed victuallers, and was now concluding with a conference of chemists. Both conferences brought together people used to handling bottles; the delegates must judge for themselves which bottles were best. Torquay, continued the mayor, had always tried to retain its natural beauties so that visitors would enjoy them so much as to want to settle permanently in the town. He then congratulated the local Conference Committee on having produced "one of the finest Conference booklets which had ever been issued." No science had progressed in recent years so much as pharmacy. Unless chemists met in conferences, the health of the nation and of the world would be retarded. The mayor then extended a special welcome to the visitors from India and to Madame H. Cellier.

In reply, MRS. J. K. IRVINE thanked the mayor for the warmth of the town's reception. The Conference, she said, was a big event in the history of the Society as it was the first complete one to have been held since 1939.

The Conference chairman, Mr. B. A. Bull, then delivered his address, "The Changing Face of Pharmacy" (see p. 346).

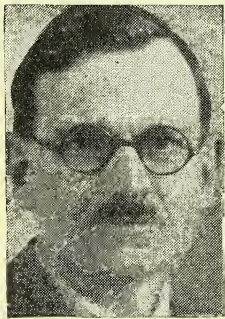
MR. HAROLD DEANE, proposing a vote of thanks to Mr. Bull, described the address as one of the most inspiring of the many such addresses that he had heard. Some of the changes which had taken place and which would take place, might seem regrettable to Mr. Bull's generation, but Mr. Bull himself had played a considerable part in bringing about many of the changes he had described. DR. HAMPSHIRE, seconding, congratulated the speaker on his choice of subject and on the lucid way in which he had presented it. "Pharmacy's face changes, but its heart is still the same," said Dr. Hampshire. The changes which had taken place in pharmacy were largely applications of those which had taken place in general medical science. The pharmacist's job now entailed more work for the head and less for the hands. It required considerable knowledge of biology and mathematics.

BRITISH PHARMACEUTICAL CONFERENCE 1947

AUTHORS OF THE SCIENCE PAPERS

"I have observed that a reader seldom peruses a book with pleasure, until he knows whether the writer of it be a black or a fair man, of a mild or choleric disposition, married or a bachelor, with other particulars of the like nature, that conduce very much to the right understanding of an author."—ADDISON

MR. KENNETH BULLOCK, Ph.D., M.Sc., Ph.C. (author and co-author of two papers



on the inactivation of enzymes) is well known in academic pharmacy, particularly in the North of England. Dr. Bullock entered Manchester University in 1919 and graduated with first-class honours in chemistry in 1923, after studying under Professor (now Sir) Robert Robinson and others. He spent

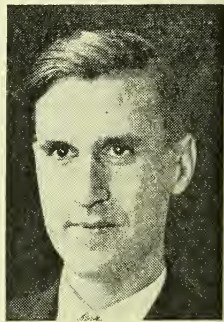
the next three years in the pharmacy department studying methods of plant analysis and published work on the constituents of English and Indian valerians, for which he was awarded the degrees of M.Sc. and Ph.D. Dr. Bullock was then put in charge of the research work of Benger's Food, Ltd., where he studied, in particular, hormones, milk products and general methods of food analysis. In 1932 he left industrial research and returned to Manchester University, and during the first three years after his return studied for and obtained the Ph.C. diploma and Fellowship of the Royal Institute of Chemistry (Branch E). Since then he has published papers on the assay of pepsin and lipase; the dispensing of local anaesthetics, particularly in alkaline solution; the preservation of galenical preparations by heat and antiseptics; the bacterial flora of drugs; and the spray-drying of pharmaceutical products. In recognition of this work he was in 1946 appointed senior lecturer in the University.

MR. H. O. J. COLLIER, B.A., Ph.D., author with Miss Sheila Paris of a paper on pyrogenic activity in intravenous solutions, was educated at the Royal Grammar School, Worcester, and Trinity Hall, Cambridge. Between 1934 and 1945 he was engaged in research or teaching in various

aspects of biological science at Cambridge, Belfast, Manchester and Liverpool universities. He worked at the Liverpool School of Tropical Medicine under the late Professor Warrington Yorke, and with Dr. E. M. Lowrie on problems of chemotherapy and on the first investigation of the treatment of spirochaetal infections with penicillin. Since 1945 he has been responsible for setting up and running the new pharmacological laboratories of Allen & Hanburys, Ltd., at Ware.

MR. G. F. SOMERS, B.Sc., Ph.C., who contributes a paper on local anaesthetics, is

in charge of the pharmaceutical department of the research division, Glaxo Laboratories. He is engaged in biologically testing pharmaceutical preparations, and antibiotics and in carrying out pharmacological research. Mr. Somers, who was apprenticed in pharmacy with Sturton & Sons, Ltd., Peter-



borough, studied at the college of the Pharmaceutical Society, and qualified as a chemist and druggist in 1940; he was awarded the Hewlett Memorial exhibition. In 1941 he obtained the Pharmaceutical Chemist diploma; was awarded the Society's medal in silver; and took up a post as demonstrator in physiology in the Society's college. In 1943 he graduated B.Sc. (hons.) in general science, (London), and in the following year was awarded the first Allen & Hanburys Research Fellowship, tenable in the Pharmacological Department of the Society's College. In 1945-46 he carried out research on the actions of hexoestrol on the mammalian suprarenal gland under Dr. Vogt, a subject on which he is to present a thesis to London University for his Ph.D. degree.

DR. H. DAVIS, B.Sc., Ph.C., F.R.I.C. co-author of a paper on variations in hand-



made pills), after eighteen years' service as chief pharmacist at University College, was appointed recently chief pharmacist to the Ministry of Health. He qualified from the Manchester College of Pharmacy in 1924, and was awarded the Pereira medal the following year. Dr. Davis, who has contributed

significantly to research in pharmaceuticals, has held office as president of the Guild of Public Pharmacists for two years, was a member of the Pharmaceutical Society's Committee of Inquiry, and has served on the board of studies in pharmacy of the University of London.

MR. T. E. WALLIS, D.Sc., F.R.I.C., Ph.C. (co-author of papers on valerian and



the determination of clove stalk), a distinguished figure in pharmacognosy circles, was chairman of the Conference in 1942 and 1943, and is a member of its executive committee. Dr. Wallis commenced his specialised studies at Birkbeck College, London, in 1893, and was awarded the Gild-

crist scholarship for botany in 1900. During 1895-96, his first two years at the school of pharmacy of the Pharmaceutical Society, he was awarded bronze and silver medals in chemistry, materia medica and botany, and certificates of honour for materia medica and practical chemistry. In 1898 he qualified as a chemist and druggist, and, in the following year, as a Pharmaceutical Chemist, obtaining, too, the Society's bronze medal at the Pereira medal competition. Dr. Wallis's teaching experience dates from 1899, when he was appointed junior demonstrator at the Society's college. During his particularly active career the positions he

has held include headship of the science department, Technical Institute, Tunbridge Wells; assistantship to a former public analyst in Devon; and lectureship in botany, and readership in pharmacognosy, at the Society's college. He is at present curator of the Society's museum. He is examiner in pharmacognosy to many educational bodies, and is a member or fellow of a number of learned and scientific societies.

MR. T. D. WHITTET, Ph.C., author of "A Note on Solutions of Kiton Green for Vital Staining,"

was apprenticed with Mr. W. O. Richardson, M.P.S., West Hartlepool, and studied at the Sunderland Technical College. He qualified as a chemist and druggist in 1937 and as a pharmaceutical chemist in 1938, taking the Pharmaceutical Society's diploma in Chemical Analysis in



1942. After two years as chief chemist with Numol, Ltd., Newcastle-on-Tyne, he took up his first hospital appointment at Chesterfield and North Derbyshire Royal Hospital in 1941, and became chief pharmacist at Baguley Sanatorium and Emergency Hospital, Manchester, in 1942. He was appointed to his present post as chief pharmacist, Charing Cross Hospital, London, W.C.2, in 1943. Mr. Whittet is a member of the B.P. Sterile Solutions Committee, the B.P.C. Pharmacy Revision Subcommittee, and the British Standards Institution's committees on pharmacists' measures, blood transfusion bottles and hospital equipment.

MR. G. E. DAVIES, B.Sc., Ph.C., co-author with Mr. J. E. Davison of a paper on the efficiency of chlorocresol in injection solutions, served his apprenticeship 1937-41 with Boots, Ltd. He graduated at Manchester University in 1944, qualifying as a pharmaceutical chemist in the same year. Since 1944 Mr. Davies has been on the staff of Imperial Chemical Industries, Ltd., engaged on research in bacteriology.

[Biographical notes on other contributors to the Science Sessions will be published next week.]

SCIENCE SESSIONS

THE Science sessions opened at the Marine Spa on Tuesday, September 16. The following three papers, all concerned with penicillin, were the first to be read:—

Hygroscopic Capacity of Commercial Penicillin

BY HARRY BRINDLE AND WINIFRED GILLIAN
KEEPE

[ABSTRACT]

TEN samples of commercially available penicillin have been examined. All had been supplied in a glass container, closed by a rubber plug and metal seal. One sample was found to have absorbed 45.6 per cent. of moisture, another 25.2 per cent., and several others contained moisture which had probably been absorbed from the air. The usual type of container is unsatisfactory. The hygroscopic capacity of the samples was compared at different degrees of humidity and found to vary considerably. One sample of sodium salt was almost non-hygroscopic. All the samples except one had deteriorated in potency when received. Samples after less than six months' storage in the original containers had lost 40 to 80 per cent. of the original activity as indicated on the label. Some samples which were practically moisture-free showed deterioration after less than twelve months' storage. All the samples except one showed further loss of activity when exposed to moist atmospheres at ordinary temperatures, but the rate of loss varied considerably in the different samples. (From the department of pharmacy, Manchester University.)

Crystalline Sodium Penicillin G: Its Stability in Solution

BY BETTY JOHNSON AND A. F. LERRIGO

[ABSTRACT]

THE results of experiments determining the stability of commercial crystalline sodium penicillin G in different solvents at 25° C., and at room and refrigerator temperatures, are recorded. The material used was drawn from current production batches, all having a potency greater than 1600 i.u./mgm. The comparisons were made between solutions made with water, buffer solution (pH 7.0) and normal saline solutions. The effect of chlorocresol and phenol on the stability of such solutions, and on

the production of turbidity, was examined. The relation between the stability of various penicillin solutions, their initial pH, and fall in pH on storage, have been followed. The effects of heating various forms of penicillin at 50° C. and at 100° C. has been investigated. The possible effect of Nipa antiseptics on the stability of penicillin solutions has been examined, and the compatibility of phenoxetol and penicillin confirmed. The stability of penicillin solutions in dilutions of glycerin and of propylene glycol has been investigated. The conclusions were reached that both crystalline and freeze-dried penicillin rapidly decompose on boiling, and that crystalline sodium penicillin G solutions are unstable in the presence of glycerin or propylene glycol. The following are among recommendations made:—

1. Chlorocresol should not be included in injection solutions.
2. If no cool storage is available, and temperatures of 20-25° C. are encountered, solutions should be used without delays exceeding twenty-four hours.
3. To add a phosphate buffer to injection solutions might be useful. (From the analytical department of Glaxo Laboratories, Ltd.)

Crystalline Sodium Penicillin G in Pharmaceutical Preparations

BY W. A. WOODARD

[ABSTRACT]

CALCIUM penicillin is less hygroscopic than crystalline sodium or amorphous sodium penicillin, and it decomposes less rapidly in a moist atmosphere. Crystalline sodium penicillin G, being less hygroscopic than the amorphous sodium salt, allows greater latitude in making pharmaceutical preparations but it is not so easily manipulated as the calcium salt.

The stability of high and low potency preparations containing crystalline sodium and amorphous calcium penicillin was compared during short periods of storage at room and elevated temperatures.

Suspensions in oil and wax containing 125,000 international units per mil of either salt retained not less than 95 per cent. of their original activity after storage at room temperature and at 38° C.; an ophthalmic ointment containing 25,000 international units per gm. of crystalline

sodium penicillin G retained full potency during four months' storage at 38° C.; solution tablets containing 15,000 international units per tablet lost approximately 10 per cent. of their initial activity when made with crystalline sodium penicillin and 20 per cent. when prepared with the calcium salt during fifty days' storage at 38° C.; lozenges containing 500 international units per lozenge of crystalline penicillin lost more than 80 per cent. of their initial activity during twenty-one days' storage at 38° C.; at 50° C. they lost all their activity. Lozenges prepared with calcium salt retained about 85 per cent. at 38° C., and 67 per cent. at 50° C. in a similar period. The keeping qualities of various ointments containing crystalline and calcium penicillin, and three methods of extracting penicillin from ointments were described. (From the research division, Glaxo Laboratories, Ltd.)

Discussion

Discussion on the three papers was taken together.

MR. B. A. BULL said that it could be seen from the papers that penicillin was still a variable substance and that an improved method of packing was necessary. It was still unexplained why some batches of penicillin should be more stable than others. The charts prepared by Miss Johnson and Mr. Lerrigo had shown that white penicillin had no advantages from the point of view of stability over yellow penicillin. The only stabiliser that had been tried and found useful was propylparahydroxybenzoic acid. He asked whether other ingredients had any effect on stability and whether Professor Brindle had experimented on the potassium salt.

MR. B. WHITTAKER, Bradford, asked if Professor Brindle had used vacuum-packed vials and whether the use of smaller containers was desirable. MR. T. D. WHITTET, London, said that he found solutions containing phenol showed turbidity within twelve hours. He asked whether the precipitates formed with phenol and chlorocresol had been investigated, and he questioned whether the hospital temperatures referred to were "normal." Wards at Charing Cross Hospital were equipped with refrigerators.

MR. F. HARTLEY, London, questioned the degree of accuracy referred to by Professor Brindle, and asked for a description of the assay methods used. He inquired whether the samples with "visually

observed absorbed moisture" were crystalline, amorphous, or freeze-dried penicillin. MR. FOSTER, Dartford, asked whether the author of the first paper had tried Carl Fischer reagent instead of phosphorus pentoxide. He thought it essential that methods of assay for preparations containing penicillin should be included in the British Pharmacopœia.

MR. D. HUDSON, Brighton, asked whether the Nipa group of compounds were undesirable for making ophthalmic preparations. MR. H. WALSH, Birmingham, said he had found it necessary to invert phials of penicillin in sterile light liquid paraffin as a precaution against the absorption of moisture. MR. BOON, Manchester, said that the higher hygroscopicity of one sample of penicillin might have been caused by the presence of small amounts of amorphous penicillin, or of penicillin F. Pure penicillin, he said, was "completely non-hygroscopic." The differing results might be explained by differences in purity. MR. J. C. HANBURY, London, said that the difficulties of packing penicillin were formidable because rubber was a relatively permeable substance. Mr. Walsh's method he considered sound. MR. BRADLEY, London, asked why no research on the potassium salt of penicillin had been carried out in Britain. He did not agree that ampoules formed the most suitable type of container, because they limited the physician in the size of dose that could conveniently be administered. The financial loss following the use of ampoules was a serious matter in hospital practice. Another speaker asked whether the incorporation of penicillin with oils before trituration had been tried in the preparation of oil-wax preparations.

Authors' Replies

MR. BULL said that the large amount of discussion showed the importance of the papers.

PROFESSOR BRINDLE was of the opinion that Miss Johnson might have obtained different results had she heated the sample at 150°C. in open vessels. Replying to Mr. Whittaker, he said he had not been concerned with the packing. The penicillin used was not vacuum-packed, and he could not see that smaller packs would have been an improvement. Replying to Mr. Hartley, he was satisfied that the assays were correct to ± 10 units. This limit of error was reached by carrying out from eight to ten assays, each of which was found to differ

very little on each sample of material. Standard penicillin had been used for comparison, and, of course, the figure 1,600 indicated limits of from 1,590 to 1,610 units. Visual examination for moisture content had been carried out on samples of freeze-dried penicillin in the form of feathery crystals. When dried, the crystals were free but on absorbing moisture they adhered or even dissolved, forming a solution at the bottom of the funnel. Replying to Mr. Foster, he said he had not used the Carl Fischer reagent because of the comparatively limited supply of penicillin available to his laboratory. He agreed that the difference in properties observed might be explained by differences in purity of the samples.

Professor Brindle had no experience of potassium penicillin. Oily preparations which were prepared by triturating the calcium salt were usually very stable.

MISS JOHNSON, replying to Mr. Whittet, said she had not investigated chemically the precipitate formed by phenol or chlorocresol. Phenol had, however, given an increasing turbidity as compared with a "conglomerate" given by chlorocresol. Nipa compounds did not affect the stability of the solution. The Carl Fischer method was generally used. She advocated the use of the method in studying the stability of penicillin ointment.

MR. WOODARD, replying to a question by the chairman, found no evidence that contaminants affected the penicillin stability. Preliminary studies with potassium penicillin salts were being conducted. The method of grinding penicillin under oil was the best method for oily preparations.

The following paper was then read:—

Use of Antiseptics in the Sterilisation of Solutions for Injection

PART I

THE EFFICIENCY OF CHLOROCRESOL

By G. E. DAVIES AND J. E. DAVISON

[ABSTRACT]

THE British Pharmacopœia describes three methods for sterilising aqueous solutions. Of these, the physical processes of autoclaving and filtration have now been in regular use for many years. The third method, known as heating with a bactericide, is relatively new, having been introduced into the Fourth Addendum to replace the unsatisfactory Tyndallisation and emergency processes. There is no indication in the Pharmacopœia that one method

is more likely to ensure sterility than any of the others, and the main factors influencing choice of method appear to be (a) Thermostability of the solute; (b) purpose for which the sterile product is required; (c) laboratory facilities available; (d) compatibility of the solute with antiseptics. In practice, these factors usually make the choice a straightforward one. Filtration, for example, although subject to no limitations under (a), (b) or (d), requires a special technique including bacteriological controls, and is hence only employed on the manufacturing scale, and then solely for heat-sensitive products. Autoclaving and heating with a bactericide, on the other hand, are simple processes, equally suitable on a dispensing or manufacturing scale. Autoclaving is the more popular. For drugs which cannot be autoclaved owing to instability, heating with a bactericide provides a most useful alternative to the more complex and tedious process of filtration. The originators of the process claimed for it a high margin of safety, and it was suggested that one of the antiseptics (chlorocresol) might be used with safety at even lower concentrations than 0.2 per cent. as recommended. Results obtained in authors' laboratories following the adoption of a new filtration technique for detecting contamination caused them to doubt whether such a margin is achieved by the use of chlorocresol. Experiments were carried out to investigate the efficiency of the compound in sterilising injection solutions. It is shown by means of the filtration sterility test that relatively low concentrations of bacterial spores may survive the Pharmacopœial process of heating with a bactericide. The criteria of a general sterilisation process are discussed, and it is recommended that certain standards should be introduced for the evaluation of such processes. (From the laboratories of Imperial Chemical Industries, Ltd.)

Discussion

The paper on "The Efficiency of Chlorocresol" gave rise to much criticism. MR. BULL said that the contention of the authors seemed to be that solutions which passed the official test would not pass the filtration test which had been described. The influence of the drug on the final sterility of the preparation was a point that required further investigation.

[Further discussion on the paper, with the authors' replies, will be reported in the next issue of THE CHEMIST AND DRUGGIST.]

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

28 Essex Street, W.C.2, Sept. 17

DEMAND FOR PHARMACEUTICAL and FINE CHEMICALS continues brisk in all sections with inquiries from both home and overseas buyers. The new export targets for chemicals and chemical products have now been announced (see p. 338) and production schedules are being revised in accordance with the new conditions. Meanwhile supplies of many products continue difficult with prices firmly maintained at previously-quoted levels. The supply position of BENZOIC ACID is, however, much better and a similar improvement is reported for BENZYL BENZOATE output. BISMUTH SALTS are selling well at the new rates. GUAIACOLS are receiving a good inquiry but supplies are still poor. A good business is being done in the SULPHONAMIDES. VANILLIN supplies are still difficult to obtain with an increasing export demand.

Crude Drugs

The markets for CRUDE DRUGS continue fairly steady, with the exception of commodities with a transatlantic origin which are firm, and trading is slow with buyers not yet purchasing their autumn requirements. AGAR has received a fair inquiry; it is understood that no import licences have been granted for Japanese and Korean material offered in Hongkong. Large quantities of Cape ALOES have been sold at 175s. per cwt. and only small supplies are now available on the spot; business has been in the forward market at 145s., c.i.f. Quotations for Curaçao aloes are higher in some quarters. STAR ANISE is rather quiet; shippers are asking as much as 110s. per cwt., c.i.f. for forward supplies. BUCHU is a dearer item. CARDAMOMS have received a fair inquiry; new-crop material for shipment will be offering shortly. CASCARA SAGRADA remains firm. CHAULMOOGRA, *hydnocarpus*, is a little easier. GAMBOGE is quiet and it is understood that near bids would be considered. GENTIAN has received a fair inquiry and business has been done at 100s. per cwt. for the natural root. GUM ACACIA is a stronger market with both Kordofan and Talha quoted at higher prices. Forward offers of Egyptian HENBANE (*H. muticus*) are difficult to obtain. IPECACUANHA continues firm with little Colombian root on the spot. Stocks of KAMALA are exhausted. MENTHOL remains a firm market. MYRRH is quiet with prices unchanged. New-crop SENEGA is quoted at 12s. 3d., c.i.f., but offers are few with collections at origin rather small. Spot supplies of BEESWAX are low. Quotations for CARNAUBA and OURICURI WAXES are higher. A fair trade in STROPHANTHUS has considerably reduced spot stocks.

Essential and Expressed Oils

The ESSENTIAL OILS market remains quiet with spot quotations little changed from last week. The forward market for many items continues to weaken and in CITRONELLA shows a rapid decline on prices which obtained a few months ago. Spot supplies of ANISEED are difficult to find but it is understood that plentiful stocks are to come forward in the near future. SASSAFRAS is tending firmer.

The Board of Trade has decided to suspend licences for the importation of OLIVE OIL for the time being, with a review of the position of supplies to take place in three month's time. Current quotations in Spain for edible oil (1 per cent.) are at £400 per 1,015 kilos, f.o.b. The Ministry of Food announces that the only change in the prices of REFINED OILS and imported edible ANIMAL FATS allocated to primary wholesalers and large trade users during the eight week period September 14 to November 8 is an increase of £1 in the price of Empire STEARINE which will now be £119 per ton, c.i.f., in softwood barrels.

The selling prices of TURPENTINE and PINE OIL, sold by the Board of Trade through its agents, the United Kingdom Naval Stores Association, Ltd., 46 St. Mary Axe, London, E.C.3, have been reduced. The new prices are as follows: American gum spirits, £95 per ton; pine oil, £85 per ton, net, naked, including duty, ex store United Kingdom, in loan drums. Pine oil in drums is quoted at 9s. (10-gall.) and 9s. 6d. (5-gall.) net, per imperial gall., including duty, ex suppliers premises in free drum.

U.S. Drug and Chemical Report

New York, September 12

SALES of CHEMICAL PRODUCTS in the third quarter of 1947 are running at a slightly higher rate than in the previous three-month period; this trend is expected to be more emphasised in the October-December quarter because of the upward price tendency, and an improvement in demand for DRUGS, COSMETICS and PLASTICS after the Spring decline. Little new business is reported in basic FERTILISER CHEMICALS, however. Producers have enough contracts on hand to absorb all production over the rest of 1947 and are therefore unable to accept new orders. A small price advance of 3 cents per lb. for certain bromides featured the FINE CHEMICALS markets during the week. SILVER NITRATE is firmly held at the recently increased prices, which range between 45½ and 47 cents per oz. Export orders for OXALIC ACID are being refused because of the tight

domestic position. Prices on the resale market here have been increased to 28-30 cents per lb.

The only notable development of the week in the BOTANICAL DRUGS market was in SENEGA. Reports that the new crop would be smaller than predicted, together with the current short supply position of the market resulted in a 40 cent increase in the quotation from \$2.10 to \$2.50 per lb. Prices on the ESSENTIAL OILS and AROMATIC CHEMICALS markets continued to decline last week although many trade interests predicted improved business in the near future. Some dealers reported an increase in the demand for SPICE OILS. Highly unsettled conditions continue in MINT OILS, due mainly to conflicting reports of the new crop.

Pharmaceutical Chemicals

ADRENALINE.—Makers' prices for the synthetic are as follows: 100 gm., 2s. 9d. per gm.; 250 gm., 2s. 6d.; 500 gm., 2s. 2d.; 1,000 gm., 1s. 11d. Quotations for the natural are from 5s. 6d. to 6s. per gm., according to quantity.

ALLOBARBITONE.—Current price for 10-kilo lots is 90s. per kilo; smaller quantities are quoted at 99s. per kilo.

AMPHETAMINE.—Prices for the BASE and SULPHATE are from 150s. to 160s. per lb., as to quantity.

ANETHOLE.—Quotations for material prepared from star anise oil are from 16s. to 16s. 6d. per lb.

ASCORBIC ACID.—Current quotations are at from £23 10s. per kilo, upwards.

ATROPINE.—Home trade prices per oz. are as follows: ALKALOID, 42s. 6d.; 4 oz., 42s.; 25 oz., 41s. 6d. SULPHATE, 34s. 4 oz., 33s. 6d.; 25 oz., 33s. METHYLBROMIDE and METHYLNITRATE, 75s.

BISMUTH SALTS.—Schedule rates per lb. for CARBONATE in quantities of 14 lb. to 28 lb. are as follows: In 1-lb. containers, 16s. 9½d.; 2-lb., 16s. 8½d.; 4-lb., 16s. 8d.; 7-lb., 16s. 7d.; 14-lb., 16s. 6½d. CITRATE is 2s. 4d., SALICYLATE and SUBNITRATE, 2s. 1d. below above prices. SUBGALLATE is 11d. per lb. more than the prices for carbonate.

BORIC ACID.—Current rates per ton lots of B.P. quality are: Granulated, £60; crystal, £61; powder, £62. Commercial grades, £8 per ton less. Packed in 1 cwt. bags, delivered carriage paid in Great Britain, in 1-ton lots and upwards. Terms quoted do not apply to Northern Ireland.

CHLOROCRESOL.—Quotations are maintained at from 4s. to 4s. 6d. per lb.

CHLOROFORM.—Current rates are as follows: 1-cwt. lots, in Winchester quarts, 2s. 11d. per lb.; 56 lb. lots, 2s. 11½d. per lb.

CINCHONEN.—Prices are from 35s. to 40s. per lb., according to quantity.

COBALT SALTS.—Makers' quote BROMIDE at 16s. per lb. and IODIDE at 45s. per lb.

EUCALYPTOL.—B.P. quality, in fair supply, is available at 11s. 6d. to 13s. per lb., accord^d to quantity.

GUAIACOLS.—Liquid is quoted at 14s. 6d. to 16s. per lb.; crystal and carbonate, 14s. to 15s. per lb., according to quantity.

HEXAMINE.—B.P. is quoted at from 1s. 5d. to 1s. 9d. per lb., as to quantity.

HEXYL RESORCINOL.—Quotations are at from 18s. to 20s. per oz. and upwards.

HOMATROPINE.—Makers' prices per oz. are as follows (prices per gm. in brackets): ALKALOID.—1 oz., 97s. 6d.; 4 oz., 92s. 6d.; 16 oz., 87s. 6d. (4s.) HYDROCHLORIDE, HYDROBROMIDE and SULPHATE.—1 oz., 75s.; 4 oz., 70s.; 16 oz., 65s. (3s. 2d.).

HYOSCINE HYDROBROMIDE.—Makers' quotations are from 147s. 6d. to 150s. per oz., according to quantity.

IODINE PREPARATIONS.—Current prices per lb. for the home trade, are as follows: POTASSIUM IODIDE, B.P.—1 cwt., 10s. 8d. SODIUM IODIDE, B.P.—28 lb., 11s. 8d. IODOFORM, B.P.—28 lb., powder, 15s. 1d. crystals, 17s. 1d. RESUBLIMED IODINE, B.P.—1 cwt., 12s. 5d. Orders of 28 lb. and upwards may be comprised of assorted preparations at schedule rates. Packages are extra. Contracts may be booked for 1 cwt. and over of assorted preparations for delivery as required within three months with rise and fall clauses. Special rebate of 4d. per lb. allowed on quantities of 5 cwt., in one delivery, or on contract for delivery within three months.

LACTOSE.—Quotations are from £120 per ton upwards, according to quantity.

PHENAZONE.—In short supply. Quotations are at from 32s. 6d. to 35s. per lb., as to quantity.

PEPTONE.—Importers' quotations are from 13s. to 15s. per lb., as to quantity.

PILOCARPINE.—Makers' rates per oz. are as follows: ALKALOID.—1 oz., 37s.; 4 oz., 36s. 6d.; 25 oz., 36s. HYDROCHLORIDE.—1 oz., 32s. 6d.; 4 oz., 32s.; 25 oz., 31s. 6d. NITRATE.—1 oz., 30s. 3d.; 4 oz., 29s. 9d.; 25 oz., 29s. 3d.

SALICYLATES.—Makers' prices per lb. (containers in brackets) for SODIUM SALICYLATE, current in the home market, are as follows: 28 lb. and under 1 cwt., 3s 2d. (1-lb.); 3s. 1d. (2-lb.); 3s. 0½d. (4-lb.); 2s. 11½d. (7-lb.); 2s. 11d. (14-lb.); 2s. 10d. (28-lb.). Net one month.

SALICYLIC ACID.—Makers' prices per lb. for quantities of 28 lb. up to 1 cwt. (containers in brackets) are as follows: 2s. 8½d. (1-lb.); 2s. 7½d. (2-lb.); 2s. 7d. (4-lb.); 2s. 6d. (7-lb.); 2s. 5½d. (14-lb.); 2s. 4½d. (28-lb.). Net one month.

TETROBROMINE.—In short supply. Makers' prices per lb. are as follows: ALKALOID, from 39s. 6d. to 43s. 6d., according to quantity; CALCIUM SALICYLATE and SODIUM SALICYLATE, from 22s. 3d. to 26s. 3d.; SODIUM BENZOATE, from 24s. 9d. to 27s. 9d.

Crude Drugs

ACONITE.—Indian root quoted from 375s. to 380s. per cwt.

ALOES.—Spot supplies of *Cape* are low and quotations are at 175s. per cwt.; for shipment, business done at 145s., c.i.f. Duraçao in boxes, is quoted at 235s. to 240s., spot; forward, 215s. to 220s., c.i.f. Socotrine is quoted at 156s. to 190s. per cwt., according to quality.

ANISE (STAR).—A quiet market. Quotations for spot are at 130s. per cwt.; shipment is firmer at 110s., c.i.f.

BALSAMS.—*Canada*, in short supply, is quoted at 16s. 6d. per lb., spot. *Pará Jopaiiba*, spot, is quoted at 8s. per lb., for soluble and 7s. 3d. per lb. for insoluble. *Peru*, San Salvador, is quoted at 7s. per lb., duty paid. *Tolu*, on the spot, 18s. per lb.

BELLADONNA.—Root with a test of 0.5 per cent. alkaloids is quoted at 6s. per lb. spot; English herb (cut) is available at 6s.

BENZOIN.—Sumatra is quoted at from £16 to £21 per cwt., spot, as to quality; forward market is tending easier.

BUCHU.—Spot quotations for short rounds are at 4s. 4½d. per lb.; shipment, 4s., c.i.f.

CAMPHOR.—Chinese tablets (¼-oz.), quoted at 11s. 3d. to 11s. 6d. per lb., spot; refined powder (B.P.), 11s.; Formosa (B.B.), 10s.; 2½-lb. slabs, afloat, quoted at 10s. 6d. per lb., landed, duty paid. Chinese crude, 93-95 per cent., 7s. per lb.

CARDAMOMS.—Mangalore: Half-bleached, A's, are quoted at 8s. 3d. per lb.; B's, 7s. 9d. per lb.; seeds, 7s. (nominal), spot. Aleppy seeds, No. 1, offered at 7s. 9d. per lb.; Aleppy greens, 6s. 9d. per lb., spot.

CASCARA SAGRADA.—Firm. Spot quotations for 1946 peel are at 260s. per cwt., duty paid. 255s., duty paid, is being asked for American new-crop.

CHAMOMILES.—Belgian old-crop flowers are rather scarce on the spot and prices are from 10s. to 10s. 6d. per lb. Little, if any, new-crop will be available.

CINNAMON.—Quiet. Quillings are quoted at 2s. 1½d. to 2s. 2d. per lb., spot; featherings, 1s. 6d. to 1s. 9d.; chips, 1s. to 1s. 1d., according to quality.

CLOVES.—Zanzibar, quoted at 10d. per lb., spot. Penang, offered at 3s. to 3s. 6d.

COLOCYNTH.—Quiet. Spot, fine-white is offered at 2s. and medium-white quoted at about 1s. 10½d. per lb.

DIGITALIS.—Portuguese is offered at 130s. per cwt., spot; English-grown is quoted at 2s. 6d. per lb.

ERGOT.—Quoted at 4s. 9d. per lb., spot, forward, 4s. 3d., c.i.f.

EUPHORBIIUM.—Firm. Spot quotations are from 85s. to 90s. per cwt.

GAMBOGE.—Spot, Siam pipe is quoted at £60 per cwt., duty paid.

GENTIAN.—French natural root, on the spot, is steady at 100s.; cut, 130s. per cwt.

GINGER.—Jamaica No. 1 is quoted at 110s. per cwt., spot; No. 2 is quoted at 95s.; No. 3, 90s. Sierra Leone, on the spot, is at 67s. 6d.

GUAIACUM RESIN.—Quotations for lump are from 2s. 9d. to 3s. per lb., spot.

GUM ACACIA.—Kordofan cleaned sorts quoted at 74s. per cwt., ex store; shipment, 69s. 6d., c.i.f. Bleached No. 1 is quoted at 145s., ex store, and Talha at 42s. 6d. per cwt., spot; forward, 38s. 6d., c.i.f.

GUM MASTIC.—No. 1 is offered on the spot at 14s. per lb., duty paid.

HELLEBORE.—Spot quotations are at 3s. per lb., duty paid.

HENBANE.—Quotations are at 4s. 6d. per lb., spot. Egyptian (*H. muticus*) forward, 115s. per cwt., c.i.f.

HENNA.—Egyptian leaves are quoted at 135s. per cwt., ex warehouse.

HYDRASTIS.—Firm. Spot quotations are at around 60s. per lb.

IPECACUANHA.—Firm. Nicaraguan root on the spot is quoted at 28s. to 28s. 6d. per lb.; shipment, September-October, 26s. 6d., c.i.f. Colombian, little on at spot at 27s. 6d.; shipment, 24s. 6d., c.i.f.

KARAYA.—No. 1 gum is quoted at 215s. to 220s. per cwt., spot; No. 2, 170s.

LAVENDER FLOWERS.—Spot quotations are from 2s. 3d. to 4s. 6d. per lb., according to quality.

LIQUORICE ROOT.—Anatolian whole root is quoted at 52s. 6d. per cwt., spot. Turkish juice (block) to come forward is quoted at 250s. per cwt., duty paid; shipment, 225s., c.i.f.; Turkish stick (2-oz.) is offered at £455 10s. per ton, spot. Italian stick (1-oz. and 2-oz.) is available on the spot at prices from £420 to £485 per ton, according to quality.

MENTHOL.—Brazil is firmly held at 47s. 6d. to 50s. per lb., duty paid; forward offers from 41s. to 43s., c.i.f. Chinese, in original cases, is quoted at 52s. 6d. per lb., duty paid; forward quotations are around 60s. per lb., c.i.f.

MYRRH.—Spot. Aden sorts is quoted at £14 to 15 10s. per cwt., according to quality; siftings, £8 to £10 per cwt.

NUTMEGS.—West Indian 80's are steady on the spot at 2s. 9d. per lb.; unassorted, 2s. 3d. per lb.

NUX VOMICA.—Madras is steady at 40s. to 42s. 6d. per cwt. Mangalore, 40s.; Cochin, scarce, 42s. 6d. to 45s., spot, as to seller.

PSYLLIUM SEED.—Black, on the spot, is quoted at prices from 2s. 3d. to 2s. 6d. per lb.; pink seed (*Isphaghula*) is rather scarce at 1s. 5d.

QUASSIA.—Chips, shipment, quoted at 34s. per cwt., c.i.f.; September-October is quoted at 32s., c.i.f.; spot, 40s., value.

QUILLAIA.—Natural bark, spot, can be bought at 115s. per cwt.; cut, for future delivery, is available at 135s. per cwt.

RHUBARB.—Spot quotations for Chinese rough round are from 6s. to 7s. 6d., according to fracture; forward, from 4s. 6d. to 5s. 6d., c.i.f. Poorer qualities are offered at 4s. 3d. to 5s. 6d. per lb., spot. French rhapontica is at 2s. per lb., spot.

SEEDS.—Prices are more or less unchanged from last week. **ANISE.**—Cyprus quoted at 2s. 3d. per lb. and Turkish, 2s. 1d. per lb., duty paid, spot London or Liverpool. **CARAWAY.**—Dutch offered at 11½d. per lb., duty paid, ex wharf London; new-crop for September delivery, 1s. per lb., landed, duty paid. **CELERY.**—Indian, 1s. 4d. per lb., spot Liverpool. **CORIANDER.**—Spot, Morocco offered at 42s. 6d. per cwt., duty paid, ex wharf London; Argentine, 40s. per cwt., duty paid in London, and Indian, 40s. per cwt., ex store Liverpool. **CUMIN.**—Spot, Indian, 230s. per cwt., ex store Liverpool or Hull; Cyprus, 235s. per cwt., ex wharf London. **DILL.**—Indian quoted at 40s. per cwt., spot London, and 37s. 6d. ex store Liverpool. **FENNEL.**—Indian 90s. per cwt., spot London, and 85s. per cwt., ex store Liverpool. **FENUGREEK.**—Indian, 45s. per cwt., ex wharf London, and 42s. 6d. per cwt., ex store Liverpool.

SENEGA.—Spot quotations for old-crop material are from 12s. 6d. to 13s. 6d. per lb.; new-crop, 12s. 3d., c.i.f., with few offers.

SHELLAC.—F.O.T.N., pure, quoted at 282s. 6d. per cwt., spot.

SQUILL.—Spot quotations are at 65s. per cwt.

STRAMONIUM.—Indian leaf is steady at 75s. per cwt., on the spot; Hungarian leaf, 115s., spot.

STROPHANTHUS.—A fair business has been done and stocks are rather low. Kombé seed, 100 per cent., quoted at 9s. 6d. per lb.

STYRAX.—There are small supplies, on the spot, at 5s. per lb., duty paid, but 5s. per lb. in bond, is also being asked.

TURMERIC.—Madras finger is quoted at 107s. 6d. per cwt., spot Liverpool or London.

VALERIAN.—Belgian root is at 190s. to 220s. per cwt., according to holder.

WAXES.—BEES' on the spot continues scarce with no supplies of Dar-es-Salaam or Lindi. Yenan is quoted at 380s. per cwt., duty paid; Benguela, 380s., spot, and for shipment, 300s., c.i.f., buyers' licence. **CANDELLILLA.**—Quotations for spot are at 425s. per cwt.; shipment, 385s., c.i.f. **CARNAUBA.**—Fatty grey is firmer at 650s. per cwt., spot; afloat, 550s., c.i.f.; October-November shipment, 510s., c.i.f., buyers' licence. Prime yellow is quoted at 800s., spot; shipment, 750s., c.i.f. buyers' licence. **MONTAN.**—Reibeck is quoted at 390s. per cwt., spot; Czechoslovak crude, 335s., spot. **OURICURI.**—Firm. 9 per cent. quoted at 375s. per cwt., spot. Shipment 5 per cent, 345s., c.i.f.; 2 per cent, 360s., c.i.f.; 1 per cent, 375s., buyers' licence.

Essential and Expressed Oils

ALMOND.—B.P. (sweet), in short supply is quoted from 7s. 6d. to 12s. per lb., according to seller. Bitter oil, to come forward, is quoted at 25s. to 27s. 6d. per lb.

ANISEED OIL.—Rather scarce on the spot with quotations ranging 6s. to 8s. 6d. per lb., according to quantity and seller; shipment, 4s. to 4s. 6d., c.i.f.

BAY.—West Indian is quoted at 7s. 6d. to 9s. per lb., spot.

CADE.—Spot quotations are at from 4s. to 5s. 6d. per lb., according to quantity; prices are lower for oil to come forward.

CITRONELLA.—Ceylon, spot, is quoted from 6s. to 8s. per lb., according to quantity. **CLOVE.**—English-distilled bud oil is steady at 11s. 6d. to 12s. per lb.

CORIANDER.—English-distilled, 250s. per lb., nominal quotation.

FENNEL.—Sweet oil is quoted at 17s. 6d. to 20s. per lb., on the spot.

GINGER.—Quotations range from 75s. to 125s. per lb., according to quality and seller.

GUAIACWOOD.—Quoted at 16s. to 19s. per lb., spot, according to quantity and seller.

LEMONGRASS.—Spot quotations are from 7s. 6d. to 9s. per lb., according to quantity.

LIME.—Quotations for West-Indian distilled are from 30s. to 34s. per lb.

NUTMEG.—English-distilled oil is at 45s. to 55s. per lb., spot; West-Indian distilled, to come forward, 42s. 6d. to 45s. per lb., landed.

PATCHOULI.—Seychelles, spot, quoted at 70s. to 80s.; to come forward, 60s. per lb. Singapore is offered at from 100s. to 130s., spot, according to quantity and seller.

SASSAFRAS.—Firm. Brazil is at 5s. 9d. to 7s. per lb., spot, according to quantity.

Refined Vegetable Oils

Ministry of Food prices (per ton) of refined oils allocated to primary wholesalers and large trade users during the eight-week period September 14 to November 8 are given in the table below.

Oil	Grade	Price £
Cocconut	Refined deodorised ...	112
Cocconut	Refined hardened	116
Palmkernel	Deodorised	112
Palmkernel	Hardened deodorised...	116
Cottonseed	Refined deodorised ...	114
Groundnut	Refined deodorised ...	114
Groundnut	Refined hardened	
	deodorised to 40°	118
	deodorised to 50/52°	119
Palm	Refined deodorised ...	111
Palm	Hardened deodorised...	114

The rates are for bulk supplies, naked, ex works. Refined edible cottonseed oil is no longer being manufactured.

OVERSEAS TRADE NEWS

Ban on Penicillin Imports.—In an attempt to prevent self-medication by members of the occupation forces, and to restrict black market activities among the civilian population, the private import of penicillin by post into the Anglo-American zones of Germany has been banned.

Chemicals from Soya Beans.—A new plant has been completed in Chicago for the commercial recovery of soya sterols. It is understood that stigmasterol and sitosterol, used in making hormones, have been found in small amounts in the soya bean but until now have not been recoverable on a commercial scale.

German Insulin Production Increasing.—Production of insulin in Germany has increased from 10,000,000 units during the first quarter of 1947 to 13,000,000 units in April. The Occupation Authorities have granted permission for the import of penicillin to the value of \$150,000 and insulin to the value of \$100,000 into the Anglo-U.S. zones.

Japan's Celluloid Industry.—Shortages of coal and raw materials have kept production in the Japanese celluloid industry down to a monthly average of only 163 tons. Only small amounts of manufactured celluloid goods are being shipped out of the country at the present time and requests for sheets, rods and tubes received from Britain, Australia and Sweden have had to be refused.

Jena Glass Production.—The glass industry of Jena, in the Russian zone of Germany, is increasing production and output of photographic lenses and optical unfinished glass is being stepped up to meet the growing export demand. Switzerland, Denmark and Jugo-Slavia have been the chief customers for lenses, while business in other glass products is developing with Austria, Sweden, Jugo-Slavia and Denmark.

German Chemical Production.—Output at the nationalised German chemical works of Fahlberg-List A.G. has regained pre-war levels. The works are producing superphosphate for the Eastern Zone chiefly from Russian raw materials. Sulphuric acid is produced at the plant itself mainly from Norwegian and Swedish pyrites. The pharmaceutical section of the works is fully occupied and a new plant is at present under construction. One of the most important products is chloramine. Chemical works in Homburg have resumed produc-

tion of methanol and soap raw materials, and the plant is now working at one-third of capacity.

Industrial Research in Australia.—Recent research carried out by Australian industrial chemists include the production of ethylene from alcohol and furfural from waste agricultural products for use in the plastic and lacquer industries. Work is also proceeding on the production of synthetic waxes from waste organic acids. Processes have been designed for the treatment and extraction of oil from shark livers, and morphine has been produced from opium poppies grown in experimental plantations.

U.S. to Export Radioisotopes.—President Truman announced recently to the fourth International Cancer Research Congress, meeting in St. Louis, Missouri, that twenty different kinds of radioisotopes for the treatment of diseases have been released for export from the United States. Conditions imposed on the export are that receiving countries must state how the radioisotopes are to be used and make six-monthly progress reports to the Atomic Energy Commission. "Qualified scientists—irrespective of nationality"—must be allowed to visit institutions where the materials are used, to obtain information on the purposes, methods and results of their use.

New Vitamin Plant for South Africa.—A new vitamin-concentrating plant is now being built at Simonstown, South Africa, and it is due to go into production in January 1948. Soup fin sharks and ling cod, abundant in South Africa, will provide the raw materials for the factory, and the extracted crude oil will be concentrated while simultaneously being decolorised, deodorised and separated from the waxy substances which cause the vitamin oil to cloud at low temperatures. The final product will be a vitamin oil concentrate containing 500,000 or more international units per gm. of vitamin A. The residual oil, which amounts to more than 90 per cent. of the original total, will be recovered in glyceride form and either processed further to yield oils for the manufacture of printing inks, sulphonated oils, etc., or used as soap stock. Output of the plant is expected to exceed the present level of domestic requirements, thus leaving a surplus for export purposes.

TRADE MARKS

(From "The Trade Marks Journal," August 20)

- "AUDRETTE"; for pharmaceutical preparations for human and veterinary use, sanitary substances, medical and surgical plasters, material prepared for bandaging, sanitary towels and knickers, lint and cotton wool for medical, surgical and pharmaceutical purposes (5). By Bennetts (Oldham), Ltd., High Lee Mill, Green Street, Oldham. 646,008.
- "VELVOCREPE"; for crêpe paper handkerchiefs (16). By Harold Wesley, Ltd., Harlesden Stationery Mills, Acton Lane, London, N.W.10. 633,431 (Associated).
- "BOTRICOL" and "BOTRILEX"; for insecticides, fungicides and preparations for killing weeds and destroying vermin (5). By Bayer Products, Ltd., Africa House, Kingsway, London, W.C.2. 649,288-89 (Associated).
- "JAGMA"; for optical apparatus and appliances (9). By J. H. Newbury, Ltd., 6 Great Sutton Street, London, E.C.1. 649,211.
- "QUALIDENT"; dental apparatus and appliances, all of metal (10). By F. & H. Baxter, 4 Coates Terrace, Manchester Road, Bradford. 648,184.
- "TOILEX"; for non-medicated toilet paper (16). By Reginald Malcolm Broadhead, "Westmount," Seaview Road, Broadstairs, Kent. B649,026.
- "WIZOD"; for hair curlers (26). By Beautisales, Ltd., 35 Old Bond Street, London, W.1. B647,147.

(From "The Trade Marks Journal," August 27)

- Label design showing a factory, medals and the words "POLAK & SCHWARZ" in distinctive lettering; for industrial chemicals, etc. (1), soaps, perfumes, essential oils, dentifrices, toilet preparations (not medicated) and cosmetic preparations (3), pharmaceutical, veterinary and sanitary preparations, weed-killers and vermin destroying preparations (5). By Naamlooze Vennootschap Polak & Schwarz's Essence, fabriek, Stationstraat 126 & 128, Zaandam, Holland. 609,085-88 (Associated).
- "MICROMET"; for water softening preparations (1). By Albright & Wilson, Ltd., Chemical Works, Oldbury, nr. Birmingham. 647,094.
 - "SUPRAC"; for activated carbon for use as absorbent and filtering agents in the manufacture of food and of pharmaceutical preparations (1). By Lancashire Chemical Works, Ltd., High Street West, Glossop, Derbyshire. 647,602.
 - "TEDNAM"; for chemical products used in agriculture and horticulture and for natural and artificial manures (1). By Roland Edgar Slade, Tednanbury, Spelbrook, Bishop's Stortford, Herts. 648,969.
 - "SKIPO"; for abrasive preparations (3). By J. Bibby & Sons, Ltd., 21 King Edward Street, Liverpool. 648,672.
- Design showing figure and palm trees on beach; for toilet preparations (not medicated), cosmetics, perfumes, perfumed sachets, soaps, depilatories, toilet preparations for the teeth and for artificial dentures, mouth-washes, hair preparations and manicure toilet preparations (3). By L. J. Ruskin, Ltd., Eldon Street House, Eldon Street, London, E.C.2. 648,567.

- "FARBEL"; for all goods (3). By Laboratoires d'Produits Catherine Soline & Co., 59 rue Saint Anne, Paris. 645,135.
- "KARAKYL"; for all goods (3). By Cavalcade Beauty Preparations, Ltd., 8 Basil Street Knightsbridge, London, S.W.3. 646,796.
- "CHASSE GARDEE"; for perfumes, toilet preparations (not medicated), cosmetics, soaps, essential oils, hair lotions and dentifrices (3). By Société Anonyme de Diffusion Internationale de Parfumerie, 58 rue de Provence, Paris, 9. 645,440.
- "CORETTE"; for perfumes, toilet preparations (not medicated), cosmetics, dentifrices, depilatory toilet articles (not included in other classes) hair-waving sachets, soaps and essential oils (3). By Chemicals and Essential Oils, Ltd., Astor House, 95 Aldwych, London, W.C.2. 647,091.
- "DOBB'S" and label design showing man and woman in period costume (word "Dobb's" disclaimed); for perfumes, toilet preparations (not medicated), hair lotions, cosmetics, shaving lotions and perfumed soap, all being goods for export (3). By Cosmic Preparations, Ltd., Ludgate Hill, London, E.C.4. B647,117.
- "CAPTIVE HEART" superimposed on winged heart behind wire netting; for toilet preparations (not medicated), cosmetics, perfumes and perfume soaps (3). By The Abietan Manufacturing Co. Ltd., Concordia Works, Carmichael Road, London, S.E.25. 648,892 (Associated).
- "VEEMAX"; for polishing and cleaning preparation (3). By C. E. Whelon & Co., Ltd., 132 Queen Road, Reading. 648,919.
- "RANLAY"; for perfumes, toilet preparations (not medicated), cosmetics, dentifrices, depilatories toilet articles (not included in other classes) hair-waving sachets, soaps and essential oils (3). By Wendell Nicholas, Park Pharmacy, 4 Mill Street, Treecynon, Aberdare. 648,924.
- "MIL-O-SUDS"; for soap (3). By Sadler & Co (Glasgow), Ltd., 144 St. Vincent Street, Glasgow, C.2. 649,142 (Associated).
- "SANDOZ" and device of the letter S in triangle for pharmaceutical products (5). By Sandoz Ltd., 60 Fabrikstrasse, Basle, Switzerland 612,758 (Associated).
- "SE-SPRA"; for pharmaceutical saline preparation for internal human use (5). By Stotherts, Ltd., Albion Works, North Road, Atherton, Lancs 638,110.
- "HALIDERMOL"; for pharmaceutical preparation for the treatment of the skin (5). By The Crookes Laboratories, Ltd., Gorst Road, Park Royal, London, N.W.10. B645,492 (Associated).
- "ESPADOL" superimposed on sword device; for pharmaceutical preparations for human and veterinary use, sanitary substances, disinfectants germicides and insecticides, all being goods for export (5). By Reckitt & Colman, Ltd., Kingston Works, Dansom Lane, Hull, Yorks 646,611 (Associated).
- "NEOFLEG"; for electrical apparatus, appliances and instruments in this class, scientific, photographic, optical, etc. apparatus and instruments, excluding protective aprons and gloves (9). By Curt Gruenberg, Claygate, Lye Green Road, Chesham, Bucks. 643,908.

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Botanicals and Crude Drugs
Samples on Request**C**ONTINENTAL 43
OMMERIAL Churchgate St.
CORPORATION BOMBAY
U.K. Office: 1 TODD ST., MANCHESTER, 3**BURNSIDE'S EUCALYPTUS OILS**Distilled in Australia by the largest distillers and refiners of Eucalyptus Oils
In the world—**W. K. BURNSIDE, PTY., LTD., MELBOURNE, AUSTRALIA.**80/85% B.P.
Oil Euc. Dives 40/45%
Oil Euc. Citriodora70/75% B.P.
Piperitone 90/95%
Oil Euc. Phellandrea

... Phellandrene ...

UNIFORMITY OF QUALITY . CONSISTENCY OF ODOUR**Agents for U.K.: WILSON & MANSFIELD LTD., 15 Philpot Lane, London, E.C.3**

*Phone: MANSION HOUSE 9264-5-6

(WHOLESALE ONLY)

*Grams: WYFIELD, LONDON

Gum Tragacanth



N. S. DANGOOR LTD.

Suppliers to the Industry

PROVINCIAL HOUSE, 98-106, CANNON STREET, LONDON, E.C.4.



Despite the heavy and continued demands of Government departments, we are striving steadily to improve deliveries to all our customers.

BEATSON CLARK BOTTLES



BEATSON, CLARK & CO. LTD.
MANUFACTURERS OF CHEMICAL AND MEDICAL GLASS
ROTHERHAM Established 1751 YORKS



BOS10

BRAZILIAN and CHINESE

MENTHOL CRYSTALS

REFINED CHINESE

CAMPHOR

TABLETS $\frac{1}{4}$ oz. and $\frac{1}{2}$ oz.
SLABS and POWDER

GUMS, SHELLAC, WAXES,
DRUGS, CHEMICALS

ERNEST M. SINGER

5 WHITTINGTON AVE., E.C.3

Telephone: MAN. 6040-6666

IMPORT — EXPORT

LENNONS

The Leading Chemists in
South Africa
and **Rhodesia**

Established in all important centres for many years.

Wholesale and Retail Chemists & Druggists.
Modernly equipped for Manufacturing and Marketing.

★ If you are seeking reputable Representatives or desire information, write to:—

LENNON LIMITED

Head Office: P.O. BOX 8389
JOHANNESBURG, SOUTH AFRICA.

or London Agents:—

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("L" Dept.), Stafford House (4th Floor),
14/20, King William Street, London, E.C.4

Telephone: MANSion House 0761

IT'S GOOD FOR SIGHT

& GOOD FORESIGHT



to Use
**SIEMENS
LAMPS**

BRITISH MADE

Dept. of SIEMENS ELECTRIC LAMPS AND SUPPLIES LIMITED, 38/39 Upper Thames Street, London, E.C.4

NEW or SECONDHAND MACHINERY
or Chemical Plant of any kind

ED BROTHERS (Engineering) LTD.

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Telephone - - - AVenue 1677/8

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Registered in all Countries

Write for particulars

LIMITED COMPANIES REGISTERED

CATON & SON

Monument Station Buildings, London, E.C.4

**CARBOY STAND
AND TILTER**

For drawing off small
quantities of Acids from
Carboys.

The Carboy can be tipped
to any position with one
hand.

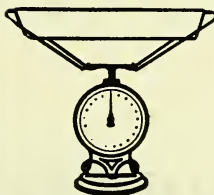
**LEIGH & SONS
METAL WORKS**
Orlando St., BOLTON



MORE AND MORE SALTER SCALES



FOR MORE AND MORE NURSES



The maintenance of
Salter accuracy is as
vital to correct
weight as the main-
tenance of correct
weight is to health.

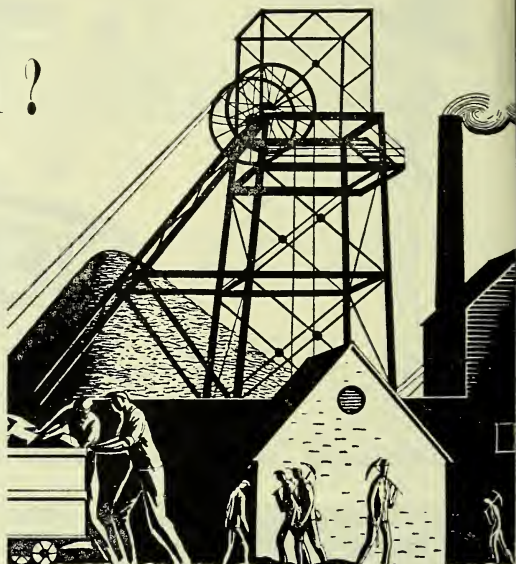
SALTER

SELF-INDICATING SCALES

GEO. SALTER & CO. LTD., WEST BROMWICH

Who first shed electric light on the Coal Question?

How pleased the miners in Pleasley Colliery must have been when Colonel Crompton installed, not only the first electric light in the underground workings, but the first flameproof switchgear. That was in 1881. This installation was destined to become one of the most important contributions to miners' welfare and safety. This was only one of Crompton's brilliant achievements. He electrified the Opera House in Vienna, railway trains, docks, lightships and cathedrals. He, too, first introduced house-to-house lighting in England.



Today, the great organisation of Crompton Parkinson Limited carries on the pioneering spirit of Colonel Crompton in the field of electric lighting development. Never was their experience and knowledge more needed than in today's 'battle for output.'

Crompton LAMPS & LIGHTING EQUIPMENT

FOR THE LATEST IN LIGHTING

CROMPTON PARKINSON LIMITED, ASTOR HOUSE, ALDWYCH, LONDON, W.C.2.

Telephone : CHAncery 3333.

Telegrams : Crompark, Estrand, London

THE CHEMIST & DRUGGIST
September 20, 1947

it's new — it's pneumatic!



BRAND AND FOREIGN
PATENTS PENDING

MARIGOLD
REGISTERED
Cushion
COMFORTER

for Cot Comfort

Made entirely of pure latex: soft,
resilient and easily sterilized

J. ALLEN & COMPANY, CHELTENHAM, ENGLAND

Trust

LIPSTICK

The choice of

"THE WOMAN OF THE WORLD"



- ★ Six fascinating shades.
 - ★ Velvet smooth texture.
 - ★ Indelible - stays fresh & fragrant all day.
 - ★ Presented in propelling plastic case... 6/6 inc. Tax.
- Refills... 2/8 " "

WORLD DISTRIBUTORS:-

ANDERSON & REEVES Limited

157 - 161 · REGENT STREET · LONDON · W-1

Telegrams TRYSTREGE, Piccy, London Cablegrams TRYSTREGE, London Telephone *REGent 1051

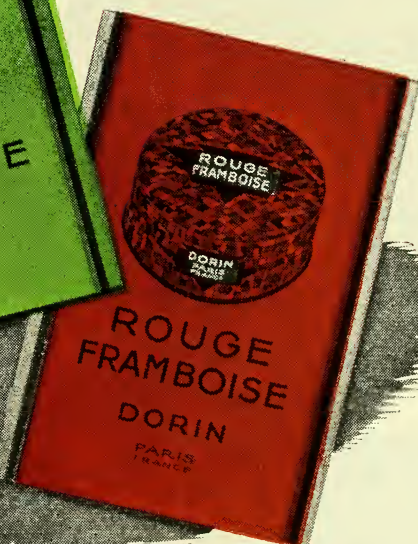
Sole Distributors in Eire: A. J. GREEN CO. LTD., 3 Sir John Rogerson's Quay, Dublin, Eire.

BACK AGAIN

DORIN ROUGE

Made in the following colours:—

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|---------|------------------|
| No. 451 | Rouge Brunette |
| No. 492 | Rouge Framboise |
| No. 516 | Rose de Mossoul |
| No. 555 | Rose Praline |
| No. 472 | Rose des Blondes |
| No. 505 | Rouge Orange |
| No. 530 | Rouge Fraise |
| No. 560 | Rouge Indien |
| No. 561 | Rouge Grenade |



Retail 3/6 each

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Send your enquiries to :

ALFRED FRANKS & BARTLETT CO. LTD.
AUDREY HOUSE • ELY PLACE • LONDON • E.C.1

You can confidently recommend the
 REGISTERED
SUBA-SEAL
 TRADE MARK
SAFETY BOTTLE
to your customers

**—IT IS SAFE, EASY TO FILL,
 TROUBLE FREE
 —and is a rapid seller**



- NO AIR LOCK
- NO SPLUTTER
- EASY STOPPERING
- NO LEAKAGE
- SEAMLESS THROUGHOUT
- NO BANDS TO BREAK
- ALL RUBBER
- LONGER RADIATION

**ORDER AT
 ONCE
 FOR PROMPT
 DELIVERY**

**FULL DETAILS
 OF PRICES Etc.
 GLADLY SENT
 ON REQUEST TO:-**

WILLIAM FREEMAN
 & COMPANY LIMITED

**SUBASEAL WORKS, PEEL STREET
 BARNSELY**

Telegrams
 "SUBASEAL, BARNSELY"

Telephone
 BARNSELY 4081

**BRITAIN'S LATEST
 HOT WATER
 BOTTLE**

The 3 stages of selling

There's a logical sequence in the selling of Tampax, perfected form of internally worn sanitary protection, and it's as simple as 1-2-3



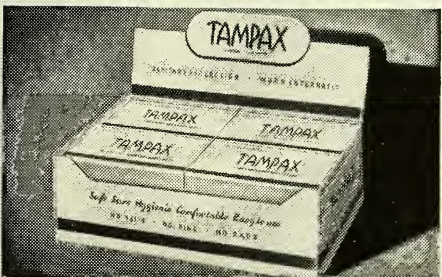
1 It starts in the home. . . When the day is done and woman is in her most receptive mood, relaxing with her favourite magazine or newspaper. Here she sees the story of the unique advantages of Tampax—told in restrained, dignified but readership-compelling advertisements. Stage 1 is done for you.



2 It continues in the window . . . with display material we will gladly supply. Women know, without the necessity of asking, that here Tampax is on sale. And that may mean the difference between a customer-in-the-shop and a passer-without-buying. Tampax displays are tastefully designed and worthy of any window.



3 It is completed on the counter . . . with a Tampax display container placed where the customer can help herself—making for an easy, unembarrassing purchase. Such purchases foster goodwill, and bring repeat sales . . . for once women have tried Tampax they rarely revert to other methods. And if they buy from you once, they will buy from you again.



TAMPAX

SANITARY PROTECTION—WORN INTERNALLY

Packets of 10:

TRADE 15/9 doz. RETAIL 1/9 Packet.
Distributed through leading wholesalers

TAMPAX LTD. Sales Office : 110 Jermyn Street, London, S.W.1. Telephone : Whitehall 8696/7

P.A.T.A.



*TREASURE OF ARTISTRY
& CHARM DISCOVERED BY
AB PLASTIC PRESENTATION*



PLASTIC

HAIR COMBS, CHEMISTS' & STATIONERS' SUNDRIES, DOMESTIC TABLEWARE, TOILET REQUISITES, "HIGHGLEE" NURSERY PRODUCTS, TABLE LAMPS, LAMP SHADES, JEWELLERY. Wholesale and export only.

WRITE FOR DETAILS TO—

A.B. PRODUCTS, Springlodge Works, Manningham Lane, BRADFORD
Telephone and Telegrams: BRADFORD 6548/9

Retailers should contact us if experiencing difficulty in obtaining our products.

Industri
now be
in sma
techni

IN
71-94

The advertisement features a black and white photograph of three products: a box of 'TUD-LAX' by J. H. JOHNS, a round tin of 'GAMMEXANE', and a cylindrical container. Three white arrows point from the products to text labels: one from the box to 'INDUSTRIA TAPE for Protection', one from the tin to 'INDUSTRIA TAPE for Identification', and one from the cylinder to 'INDUSTRIA TAPE for Labelling YOUR PRODUCT'. A separate box on the right contains the text: 'Now INDUSTRIA TAPE PRINTED to your specification in small quantities.'

INDUSTRIA TAPE for Protection

INDUSTRIA TAPE for Identification

INDUSTRIA TAPE for Labelling YOUR PRODUCT

Now
INDUSTRIA TAPE
PRINTED
to
your specification
in small quantities.

Industria Self Adhesive Tape can now be printed to your specification in small quantities. Write to-day for technical advice and sample materials.

★
Available in
Cloth or Cellulose

INDUSTRIAL TAPES LTD

92-94 NEWMAN STREET, LONDON, W.1 • Mus. 4215-6-7

BES

THIS NAME MAKES

SALES

FREE OF PURCHASE TAX

In many prominent magazines we are telling your customers about Barber Sun Lamps, telling them to ask their stockist for fuller details. You just cannot afford to miss the sales our advertising will bring you. Cash in on the sales-appeal of Barber Sun Lamps and link up with the publicity by taking advantage of the display material and counter leaflets free to stockists. For particulars, pin this page to your letterheading and post to us today. Or write, if you prefer.



Barber Electrical Services Ltd., Bournville, Birmingham

BARBER

SUN LAMPS

SOLD ONLY AGAINST PRESCRIPTIONS



THE
"MATER"
CLINICAL REGD.
The position of the Mercury column is at once perfectly plain. Red markings above 99.4

**ALL TYPES OF
CLINICAL
AND OTHER
THERMOMETERS**

PERKEN, SON & CO. LTD.
(ESTABLISHED 1852)
8 HATTON GARDEN
LONDON, E.C.1
Telephone: 0724 Holborn
Telegrams:
"Optimus, Smith, London"
Wholesale Agents for Clinical
Thermometers:
FASSETT & JOHNSON, LTD.
86 Clerkenwell Rd. London, E.C.1

**WOMEN KNOW FROM
EXPERIENCE THE
SECURE COMFORT
OF**

MENE
SANITARY TOWELS

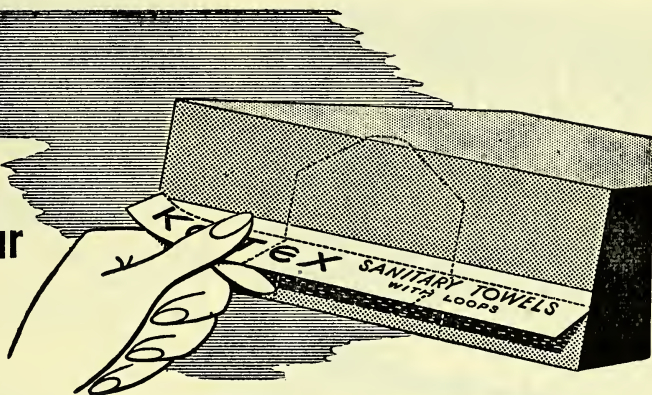
and

Menex
SOLUBLE

**SUPPLY THEM
WHENEVER YOU CAN**

ROBINSON & SONS LTD. CHESTERFIELD & LONDON

to save your
wrapping
problems . . .



. . . . tear off perforated strip

For your convenience, Kotex has decided to revert temporarily to the plain pack with "tear-off" strip. Simply remove the strip and the plain pack is ready. Limited quantities are available for the wholesale trade.

KOTEX SANITARY TOWELS
WITH LOOPS

Cellucotton Products Ltd., 33/34 Aylmer Parade,
London, N.2.

ANTISEPTIC-Stays put

A first-class dressing made by a firm with 120 years' experience



WILLIAM MATHER LIMITED MANCHESTER 15

'WEBSTER'S'

STAINLESS STEELWARE

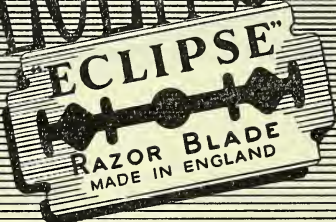
Specialists in modern equipment for manufacturers, i.e., Funnels, Buckets, Jugs, Mixing Containers, Measures, Percolators, Bories, etc., etc. Suppliers of Stainless Steel utensils, at prices which enable the user to employ them in place of other metals as an economical proposition.

The use of Stainless Steel equipment, designed on modern principles, enables overhead costs to be reduced and makes for more convenient and better working conditions.



ISAAC WEBSTER & SONS, LTD.
BEEBY WORKS, KIRKSTALL, LEEDS, 5
Phone 1580 Headingley. Grams: Isaac Webster, Kirkstall

*As good
as its
word!*



Price 3^d each
INCL. TAX

Obtainable only from Retailers.
JAMES NEILL & CO. (SHEFFIELD) LTD.

E208

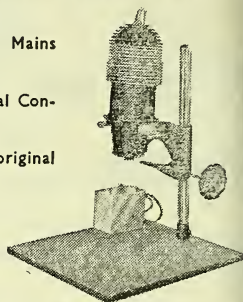
PHOTOGRAPHIC



PRODUCTS LTD

The "UNITAS" 2 $\frac{1}{2}$ " square Enlarger
Portable and Table Models

- Battery or Mains operation
- Double Optical Condensers
- Many other original features



Price, including P.T. but not lens

Table Model	£23 16 11	} Transformer extra for both models
Portable Model	£26 5 7	
		£1 13 0

ASK YOUR DEALER FOR FULLY ILLUSTRATED
CATALOGUE OR WRITE DIRECT TO MANU-
FACTURERS

354 Caerphilly Road, Whitchurch, Cardiff

PHOTOGRAPHIC FINISHING FOR THE TRADE

We are now in the position
to handle all kinds of photo-
graphic finishing work for
the trade, including develop-
ing, printing, enlarging, copy-
ing etc., also commercial and
industrial photography in the
Oxford and London districts.
Your enquiry will receive
prompt attention.

WILL R. ROSE LTD
Oxford Works
20, St. Ebbes Street
OXFORD



*Supplies
Temporarily
Restricted*

At the moment we
unable to keep pace with
rapidly growing demand
"Stergene," our new scien-
tific washer and cleanser, but
hope supplies will increas-
before long. Meanwhile
are doing our best to give
everyone a fair share of
limited quantity availa-

Stergene
SCIENCE IN CLEANSING

DOMESTOS LIMITE
COLLEGE WORKS, NEWCASTLE UPON TYNE

BUSINESS EFFICIENCY EXHIBITION

for better management in office and factory

Empire Hall, OLYMPIA, London

October 1—October 11, 1947

Organised by the Office Appliance
Trades Association of Gt. Britain
and Ireland, 11-13 Dowgate Hill,
Cannon Street, London, E.C.4.

OPEN from 10 a.m.—8 p.m. daily (Except Sunday)

STOCK LABELS



For Pharmaceutical and Toilet
Lines in quantities from 100
upwards. A wide range
of different designs in
series

No 574
SERIES



Ask for samples:
**JAMES TOWNSEND
& SONS, LIMITED
EXETER**

& AT THE ORCHARD PRESS, EASTCOTE, PINNER

"Comfort & Quality"



Dr White's

SANITARY TOWELS



ARTHUR BERTON, LTD.

Surgical Dressings Manufacturers since 1850

256-60, Old Street, London, E.C.1

MATERIAL AND LABOUR SHORTAGE

For containers and display outers, and especially for shallow packs, our Patent carton with the clips is unquestionably, in material and labour, the most economical style available today

BOXFOLDIA LTD
BOURNBROOK, BIRMINGHAM

Grams: 'Boxfoldia, Birmingham'
Phone: Selly Oak 1164

No Empties No Fulls

Your supplies of squashes and cordials are now strictly related to the number of empty bottles you return. The Soft Drinks Industry has been compelled to make this rule as only negligible numbers of new bottles are being obtained. You, in turn, must insist upon every customer handing in an empty S.D.I. bottle before you supply a full one, otherwise your future supplies of squashes and cordials will be cut. It is regrettable, and repugnant to the manufacturers, but there is no option. The fact is the empty bottles are not coming back.

**make a fast rule of
BOTTLE FOR BOTTLE**

The Soft Drinks Industry
(War Time) Assoc. Ltd.



43 Upper Grosvenor
Street, London, W.1



It's no gamble to stock
TOWN TALK
the Silver Polish which ensures regular customers to whom your other wares will also appear

ORDER DIRECT OR FROM

MANCHESTER: D. Mawdsley & Co. James Woolley Sons & Co., Ltd. LEEDS: Goodalls (Leeds), Ltd. LEICESTER: E. H. Butler & Son.	NEWCASTLE-ON-TYNE: Wilkinson & Simpson LONDON: Brooks & Warburton Ltd. May, Roberts & Co. Ltd. Butler & Crispe LIVERPOOL: Ayrto Saunders & Co. Ltd.
--	--

THE TOWN TALK POLISH CO., Manchester

SCIENTIFICALLY FORMULATED INSECTICIDES

SUISECT

Containing D.D.T. Plus a High Percentage Pyrethrum

SPECIAL INSECT POWDER In handy-sized sprinker-top containers. 1/6	LIQUID INSECTICIDE In 16oz., 32oz. & Gal Cans. 2/9, 4/9, 1 respectively.
---	--

SPRAY POWDER. In 8oz. lever-lid containers.

XTERMINEX

General Purpose Insecticidal DUSTING POWD
Containing 8% D.D.T. in finest quality Eng China Clay. In 8oz. sprinker-top containers.

EXOPEST

For Horticultural and Agricultural Use DUSTING POWDER Containing 5% D.D.T. in finest quality English China Clay. In 8oz. sprinker-top containers. 1/6	WETTABLE SPRAY POWD 5% D.D.T. — in 8 lever-lid containers. 1 25% D.D.T. — in 8 lever-lid containers. 2
--	---

for ATTRACTIVE TRADE TERMS apply

THE HYGIENIC CHEMICAL CO. LTD

SALES OFFICE & WORKS
NEATH GLAM



TELEPHONE NEATH 55
GRAMS META GLAM 2

SALES AID

FOR NEW 1/- ZOFF BOTTLE

play a new, smart 1/- bottle of Zoff
ter Remover and Skin Cleanser on
attractive counter display card. A
s aid that will tie in well with your
esive dressing and plaster displays.
te for one now.

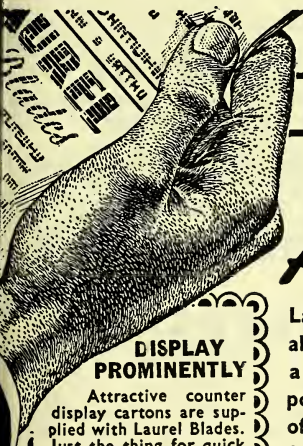
remember, Zoff is in good supply.
s supplied in attractive display outers
ix bottles ; at 8/- per dozen bottles.
a sell at 1/- each. Order from your
al wholesaler.



ZOFF

**PLASTER REMOVER
AND SKIN CLEANSER**

A Smith and Nephew Product



DISPLAY PROMINENTLY

Attractive counter
display cartons are sup-
plied with Laurel Blades.
Just the thing for quick
sales.



READ BETWEEN THE LINES OF THE NEW

LAUREL Advertising Campaign

Laurel Blades are nationally advertised in
all the main daily and Sunday papers, creating
a demand for you to supply. Our prices are
popular 1½d. each for ordinary type blades
of perfect quality in a handy 4 for
6d. pack. We make blades for every
kind of razor including ladies.

An all-British Product.

BLADES FOR EVERY RAZOR



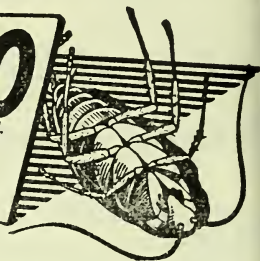
Send for illustrated Price List to

G - H - LAWRENCE - DEPT 12 - SHEFFIELD 3 - S.C.P.7

THERE IS ONLY ONE WINNER

*when INSECTS
challenge*

SECTO
Regd.
D.D.T.



**The insecticide
that sells on sight
and repeats on merit**

Made in the Factory that supplied H.M. Government with D.D.T. products during the War

Retail Prices of SECTO D.D.T. are:—

Powder 1/3 2/6 5/6 Liquid 2/- 3/- 6/- 15/-

Usual Trade Profit Margins and Discounts

SECTO CO. LTD., BLACKBURN



Here is the larger of the two packs of Daisy Tablets which may become more popular than the neat and trim 3½d. size. You will like the new 1/3 pack. A really good formula (A.P.C. with Piperine—perhaps the best of all A.P.C. combinations), a first-rate pack — a popular price and generous profit.

UNIVERSALLY ADVERTISED

Limited supplies of this handsome display carton are still available and will appeal to the Chemist who seeks to establish the 1/3 Price Standard.

Order from your Wholesaler: 1 Display carton (1 dozen), 1/3. Daisy Tablets at 9/6. (plus Tax. (P.A.T.A.))

J. E. ELLIS LTD., HORSFORTH, LEEDS

CRESTOL

ANTISEPTIC - MEDICATED CREAM
IODINE OINTMENT

CRESTANOL

VAPOUR RUB

CRESTOZONE

INHALANT

IODOCREST

OINTMENT

also

ZINC, BORACIC and SULPHUR
OINTMENTS, and PETROLEUM JELLY

CREST LABORATORIES LTD.

Manufacturing Chemists

BURY NEW ROAD, SALFORD 7

Shape of THINGS TO COME

PILLODINES

—we venture to prophesy— have a bright and promising future ahead of them. These tiny silver coated pills of specially treated iodine have striking prophylactic and therapeutic qualities that tackle the common cold in an extremely efficacious and unusual manner. *When dissolved slowly on the tongue they instantly mobilise and bring into action the body defence mechanism.* We are confident that once introduced to this new form of cold immunisation the public will be swift to recognise its virtues. A series of Chemists' window displays featuring the complete 30-day Pillodine treatment in the new 3/6d. one-at-a-time containers are now available. These will be the fore-runner of a vigorous trade and national press advertising campaign.

WATFORD CHEMICAL CO. LTD.

Phone: WELbeck 0264/8 30 BAKER STREET, LONDON, W.1

Telegrams: Watchempro', Wesdo, London

POINTS NEEDED !!!



LIKRO-MENTHS

QUORICE AND MENTHOL
PELLETS

(90% SPANISH JUICE BLOCK)

6d. PACKETS 1/-

INC. TAX —I— INC. TAX

Wholesalers write:

W. JAMES DAVIES (WESTERN) LTD.
MAINDY WORKS, CARDIFF



Glucose Confections

If you will let us know the number of points you have available we will at once let you know of our ability to supply under M.O.F. regulations.

Glucose Medications

Distribution by allocation continues as hitherto. Please state whether you are a datum or a non-datum year purchaser chemist.

Vita Glucose

Supplies are available for diabetics only.



As an Antacid
or in febrile conditions
MEDICINAL

Lembar

Soluble extract of
Barley ... 7.4%
Sugar ... 23.7%
Glucose ... 10.4%
Lemon Juice 37.0%

Plus Flavouring
and permitted
preservative

The above percentages
are expressed in
weight per given volume

justifies the doctor's highest
recommendation
Available in limited
quantities

MADE BY RAYNER AND COMPANY LIMITED, LONDON, N.

**BRITISH
MADE AMPOULE FILES**
are now available

We are now in a position to manu-
facture large quantities of Ampoule
Files and invite inquiries

DOMINION STEEL CORPORATION
LTD.

"FLEET" WORKS
QUEEN'S ROAD, SHEFFIELD, 2

PEGOL (REGD.)
"RUBGUM" TEETHING
SYRUP

SOOTHES BABY'S GUMS AND MAKES
TEETHING EASY

ATTRACTIVE SHOW CARD, BONUS
BOTTLE WITH EACH DOZEN. COST
14/6 DOZ. PLUS 2/7½ TAX.
RETAILS 2/- BOTTLE



If your Wholesaler is out of stock,
write to Arlington Chemicals,
18/19 Arlington St., Hull, Yorks.

FOR HOME AND EXPORT

Yorkshire distributors: Messrs. Lofthouse and
Saltmer, Hopwood St., Hull, E. Yorks.



**The Symbol of
Fine Service**

NO IDLE STATEMENT
but a fact proven by past experi-
ence to our clients, both old and
new. We ensure, as always, a
quick and comprehensive service,
with a fair distribution of supplies.
Our advice and service is always
at your disposal and we cordially
invite your inquiries.

Ferryman
OF SOUTHAMPTON

Suppliers of Proprietaries, Drugs and
Galenicals, Sundries and Packed Pharma-
ceuticals.

HERBERT FERRYMAN, LTD.,
COBDEN BRIDGE, SOUTHAMPTON

Telegrams: Ferryman Southamton Telephone: 75641 (5 lines)

SPECIAL OFFER TO CHEMISTS

KORAY Dispenser

MADE IN BEAUTIFUL PERSPEX

Free

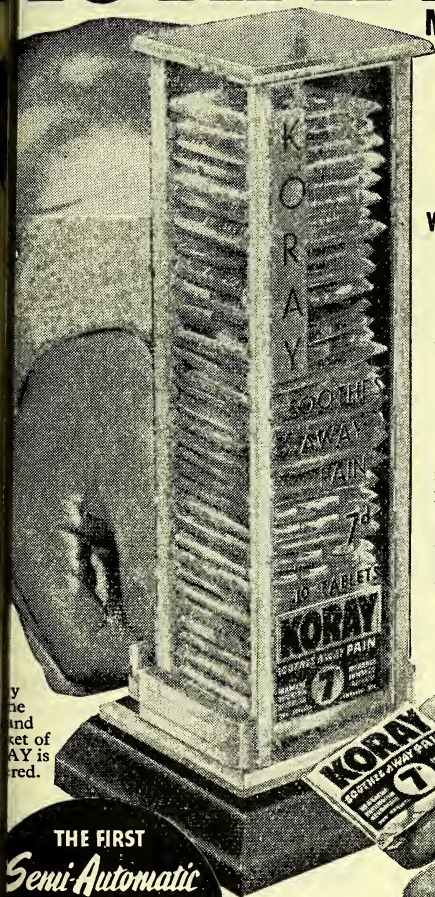
WHEN YOU HAVE SOLD THE CONTENTS

The KORAY Dispenser, made in beautiful Perspex to an eye-catching modern design, is a handsome addition to any counter, putting quick-selling KORAY right in front of your customers.

Value 35/-, the KORAY Dispenser is offered to Chemists for only £1 1 0, including the contents (3 doz. 7d. KORAY cartons, retail value £1 1 0). Thus, it is FREE when the contents have been sold.

The KORAY Dispenser is not only the most effective method of displaying KORAY, but it also prevents pilfering since it can be operated only from your side of the counter.

Millions of sufferers are finding quick relief from headaches and other pains—as well as from colds and 'flu—with KORAY. Backed by heavy and consistent advertising, the demand for KORAY, already enormous, is still increasing. Be sure you are ready to meet it.



THE FIRST
**Semi-Automatic
SELLING AID**
SINCE THE WAR

ACTUAL
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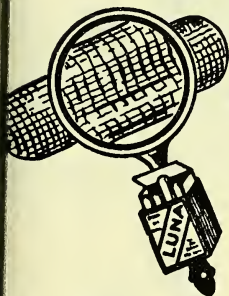
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	40 gr. "	3/4½	2/1½	+	4½	25/3	+	4/3
	20 gr. "	1/10½	1/2	+	2½	14/-	+	2/4
ID	40 c.c. bottle	3/4½	2/1½	+	4½	25/3	+	4/3
OPHTHALMO-ANTIPEOL								
	Gr. Nozzled Tube	3/4½	2/1½	+	4½	25/3	+	4/3
OPHTHALMO-ANTIPEOL								
	Gr. Nozzled Tube	2/9½	1/9	+	3½	21/-	+	3/6
ETEROFAGOS								
	Box of 50 ampoules	19/-	13/3½		None	159/7		None
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LABORATORY assistant (unqualified) wanted by London manufacturing chemists for wet counter and ointments, etc.; previous wholesale experience not essential if suitable experience in retail. Age 20 to 30 years. Full details salary, etc. 1/828, C. & D. Office.

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LONDON distributing house carrying good repeating lines have vacancies for conscientious commission agents calling on chemists and ladies' hairdressers. Application to H. J. Write Box 966, c/o George Murray (Advertising), Ltd., 184 Strand, London, W.C.2.

MAN or woman, with knowledge of pharmacy, perfumery, flavourings, etc., offered permanent, progressive appointment with old-established wholesale firm of world repute. Must have ability to write, ready command of trade jargon, and tact to coax information out of busy staff, and so provide material to a date-schedule for advertisements, circulars, catalogues, etc., as required by the firm's advertising agents. Reply in complete confidence, giving education, experience, salary required, preferably with specimens of past work, to Box No. 7, Technical Advertising Service, Aldwych House, Aldwych, London, W.C.2.

MANUFACTURERS of the most attractive range of pharmaceutical specialities invite applications for following territories: (A) Scotland, (B) Wales, (C) Lancashire and Cheshire. Sole agencies on generous commission terms to selected applicants. Only thoroughly reliable and conscientious salesmen, with established retail and wholesale connections, able to produce indisputable references, will be considered. Existing accounts transferred. Write fullest details, in confidence, to Sales Manager, including age, experience, lines carried, if car owner. 1/845, C. & D. Office.

MANUFACTURING chemists in North London require woman pharmacist as second assistant in the dispensing and light manufacturing department. Salary according to age and experience. Write Box 552, Dorland, 18 Regent Street, S.W.1.

MIDLANDS. Smart and capable representative required, able to maintain and increase existing accounts, calling chemists and depart. stores. Excellent commission basis. 1/848, C. & D. Office.

MANUFACTURING Chemists, N.W. London require the services of an energetic and experienced pill maker, capable of taking control. Willing to give details of age, experience and salary required. 1/809, C. & D. Office.

MEDICAL representative wanted by small progressive company to call on doctors, chemists, hospitals and factories in North and East London. Excellent prospects for hard working man. S. experience, area covered at present, and salary required. 1/797, C. & D. Office.

PUBLICITY. Copywriter required for ethical, medical, veterinary and pharmaceutical advertising material. Previous publicity and sales experience useful but not essential provided there is genuine flair for copywriting. Pharmacist with sales experience as a medical representative would be particularly suitable. Initial salary £500-£600 according to qualifications and experience. Apply initially in writing, quoting reference number 690, to Personnel Officer, May & Baker, Ltd., Dagenham, Essex.

QUALIFIED pharmacist, under 30, required for speciality manufacturers for sales work in London Postal District on salary and expenses paid. Details to Box 257, Tudor House, 24 Tudor Street, E.C.4.

REPRESENTATIVE, with connections in pharmaceutical chemicals, galenicals, etc., with chemists, doctors, vets, and dentists in K. Surrey, S.W. and S.E. London areas, is required for manufacturing and wholesale chemists. Send particulars of experience, turnover, etc., to 1/7, C. & D. Office.

REPRESENTATIVES required by manufacturing house of high-class quick selling lines. Must have good connections to chemists. All areas. General commission. 1/798, C. & D. Office.

REPRESENTATIVE wanted, calling on chemists in Midlands, Potteries, S. Wales, and Yorkshire. Commission basis. Established lines. Red Bank Chemical Co., Ltd., 16 Young Street, Edinburgh.

REPRESENTATIVES or agents with sound connection in chemist and hairdressing trade required to represent company with nationally advertised well-known products of high reputation. Permanent, salary, commission. Apply 1/8, C. & D. Office.

REPRESENTATIVES wanted for London. Commission and expenses. May carry other lines. Calling on chemists, drug stores and hairdressers. Apply for appointment by letter or 'phone to Lambeth Wholesale Warehouse, 196 Lambeth Walk, S.E.11. 'Phone Reliance 1445.

REPRESENTATIVES required for firm of reputation in North-West Lancs, those already covering chemists and hairdressers for the South Coast & Cambridgeshire. Please state commission required. 1/843, C. & D. Office.

REPRESENTATIVE, Derbyshire, Nottinghamshire, Cheshire and Leicestershire. This territory now vacant to a live man; toilet and cosmetic lines. Good commission and existing connections. Agency considered. R. & W. Products, Derwent House, Matlock Bath.

REPRESENTATIVES required in certain parts of the country for the sale of Beaucaire. Beaucaire Laboratories, 27 Vauxhall Grove, S.W.8.

REPRESENTATIVES, preferably qualified, but not essential, already calling on doctors, hospitals and chemists, for all parts of the British Isles to carry additional ethical product. Salary and commission. Please state lines carried, to 1/814, C. & D. Office.

SURGICAL instruments. An opportunity offered for a young man with knowledge of instruments to take control of packing department and supervise export sales. Write in first instance details of experience to 1/726, C. & D. Office.

RP & DOHME, Ltd., require the services of keen and ambitious pharmacists to fill positions on their representative staff. Territories include the Midlands and London. Applicants invited from men who are interested and able of conducting medical propaganda at the local level and in selling ethical products to G.P.s. Remuneration by salary, commission and expenses. Please submit details of experience and ability for interview, enclosing photograph if possible, to: Sales Manager, Sharp & Dohme, Ltd., London, Herts.

LET Maker. Experienced man required, London N.W. district. (5-day week). Knowledge of stamping, use of single punch, also rotary presses. Permanency. Write, stating age, experience and salary required. 1/810, C. & D. Office.

BRITISH DRUG HOUSES, LTD., require chemists of B.Sc. or equivalent qualifications for production, research and analytical departments. Experience desirable but not essential. Laboratory technicians also required with Inter. B.Sc. qualifications. Please forward record of qualifications and past experience to the Personnel Manager (P), Graham Street, City Road, N.1.

AVELLER to call on chemists in S.W. England and S. Wales to offer pills and tablets. Distributors already have large connection there. Salary, good commission. State particulars as to connection, ground now covered, etc., and when disengaged. W.B., 1/823, C. & D. Office.

O pharmacists required for stock-keeping and production work. Salary £400 per annum, or according to experience. Applications to Parke, & Co., Staines Road, Hounslow, Middlesex.

O fully experienced lady ledger clerks required for a London wholesale house. Good wages offered, and canteen attached. Five-day week. Write with full particulars to 1/826, C. & D. Office.

QUALIFIED laboratory assistants required by a firm manufacturing medicinal proprietaries in West London area. The vacancies are in the analytical laboratory. Previous experience in this class is not essential, but good general analytical technique is required. Salary £7 per week minimum. 1/829, C. & D. Office.

ELL-KNOWN Midland animal medicine manufacturers require young, energetic, fully qualified M.P.S., male or female, to work with control works staff, under the immediate personal supervision of directors. State qualifications, salary required. References essential. 1/849, C. & D. Office.

ELL-ESTABLISHED London exporting house has vacancy for department manager able to take on own initiative to take charge of essential drugs and fine chemicals. Previous experience essential. Good prospects for energetic and ambitious worker. Write full particulars in confidence to 1/851, C. & D. Office.

WRITER for medical and technical literature is required by Glaxo Laboratories, Ltd. Scientific qualifications are not important, but advertising experience and a high standard of writing are essential. Send three samples of best work (published or unpublished) when applying. State personal details and salary required. Write (do not phone or call) to Publicity Offices, Glaxo Laboratories, Ltd., Greenford, Greenford, Middlesex.

OUNG pharmacist required to assist in the general management of a London wholesale house. Good salary with prospects offered to persons with initiative and ambition. Reply with full particulars as to salary, etc., to 1/827, G. & D. Office.

WHOLESALE (OVERSEAS)

AUSTRALIA. Well-known proprietary medicine house with branch in Melbourne require pharmacist (M.P.S. or Ph.C.), analytical experience an advantage. Age 30/35. Excellent opportunity for single ex-Service man. Apply in first instance to 1/830, C. & D. Office.

CHEMISTS urgently required by large company operating in the Middle East. Will be employed either on development or process work and should be prepared initially to undertake shift work on process plant; should possess B.Sc. degree and preferably have had subsequent industrial experience. Age not over 30. Single men preferred. Starting salary not less than £500-£600 p.a. according to qualifications, together with a generous allowance in local currency, also free furnished bachelor accommodation, free passages out and home; free medical attention; kit allowance; provident fund benefits. Applicants must be of full British parentage and should write stating age, qualifications and experience, to Dept. F.18, 162/462, C. & D. Office.

PLANT chemists urgently required for process plant operations by large company operating in the Middle East. Applicants need not be graduates but should have had a chemical training up to Inter B.Sc. or National Certificate Standard with experience of shift work in either a gas, coke oven or chemical works. Age not over 30. Salary in sterling between £540 and £600 per annum plus generous allowances in local currency, with free furnished bachelor accommodation, passages out and home, medical attention, also kit allowance and provident fund benefits. Apply stating age, qualifications and experience, etc., to Dept. F.22, 162/461, C. & D. Office.

SITUATIONS WANTED

3/- for 18 words or less, 1d. for every additional word

RETAIL (HOME)

ASSISTANT, unqualified, aged 40, thoroughly experienced in all branches of dispensing and counter work. S. or S.E. London. Retail or wholesale. Plenty of work and good salary required. 1/807, C. & D. Office.

EXPERIENCED manager-under-buyer (37), many years West End, desires position of responsibility. Buyer, manager or wholesale. London. 1/815, C. & D. Office.

LADY pharmacist, B.Pharm., Ph.C., requires part time work with accommodation for self and husband. S.W. London or Croydon preferred. 1/819, C. & D. Office.

UNQUALIFIED, married, 33, first-class salesman, dispensing, window dresser; first-class experience City of London, West End. Desires change outside London where unfurnished accommodation available; S.E. England preferred. 1/817, C. & D. Office.

WHOLESALE

ACTIVE agent, now open for one or two, at a most reputable lines, Lancs, Westmorland, Cumberland. Manufacturers preferred. 1/808, C. & D. Office.

ADVERTISER, age 35, experienced representative, desires to represent manufacturer or reputable wholesale house. Essex area preferred. Car owner. 1/805, C. & D. Office.

CAPABLE man, 33, seeks progressive change. £500 p.a. Thorough knowledge spices, botanical drugs and markets. Controlled staff 15 years. Full details. 1/816, C. & D. Office.

CHARGE hand, tablet making, sugar coating, granulating, etc. 30 years' all-round experience. Strict control. 1/800, C. & D. Office.

COMPOUNDER, many years' experience cosmetics, toilets, hair preps., whole or part time. Please write T.R., 5 Sainfoin Road, S.W.17.

COSMETIC chemist with long manufacturing experience in this trade desires position with established firm. 1/785, C. & D. Office.

REPRESENTATIVE, 33, car owner, requires change. North, North-east Lancs and West Riding; all or part of this ground. 1/855, C. & D. Office.

SALES manager with wide experience and successful sales record in marketing cosmetics, proprietary medicines, etc., in home and export markets, seeks appointment. 1/796, C. & D. Office.

SANITARY towels.—Established representative doing regular journey by car Lancs, Cheshire and N. Wales for nationally advertised line, requires first-class towels, on commission. Replies to 1/820, C. & D. Office.

APPOINTMENTS

CROWN AGENTS FOR THE COLONIES

Applications from qualified candidates are invited for the following post:—

PHARMACIST (male) required by the Government of British Somaliland for 18 to 24 months with prospect of permanency. Salary according to qualifications, experience and war service in the scale £372-£600 a year. Outfit allowance £30. Free passages and quarters. Cost-of-living allowance under consideration. Candidates must be members of the Pharmaceutical Society or ex-R.A.M.C. dispensers. Apply at once by letter, stating age, whether married or single and full particulars of qualifications and mentioning this paper to the Crown Agents for the Colonies, 4 Millbank, London, S.W.1, quoting M/N/16117 on both letter and envelope.

KENT COUNTY COUNCIL

ASSISTANT PHARMACIST

Applications are invited for the following appointment at the County Pharmacy, County Hall, Maidstone.

ASSISTANT PHARMACIST (M.P.S. or Ph.C.) (Male). Hospital experience preferred. Salary £370 a year by four increments of £15 and one of £20 to £450 a year. Superannuation. Medical examination necessary. Applications, stating age, qualifications, experience and the names and addresses of two responsible persons to whom reference may be made as to professional ability, to be sent to the County Medical Officer, County Hall, Maidstone, as soon as possible.

W. L. PLATTS,
Clerk of the County Council.

County Hall,
Maidstone.
August 28, 1947.

LONDON COUNTY COUNCIL

PART-TIME ASSISTANT PHARMACIST required for duty at:

Leavesden Hospital, Abbot's Langley, Herts,
Tooting Bec Hospital, Tooting Bec Road, S.W.17, and

St. Lawrence's Hospital, Caterham, Surrey. Candidates must be registered pharmacists. Wages—five shillings and sixpence an hour for a maximum of 21 hours a week. Apply to Physician Superintendent at hospital. (3023).

KING'S COLLEGE HOSPITAL, DENMARK HILL, LONDON, S.E.1

ASSISTANT PHARMACIST required. Salary and hours in accordance with the J.N.C. revised scale. Federated superannuation scheme in force. Applications, with details of experience, should be sent to The Pharmacist at above address.

MIDDLESEX COUNTY COUNCIL

ASSISTANT PHARMACIST for HAREFIELD COUNTY HOSPITAL, Harefield, Middlesex (Registered essential), J.N.C. (Hosp. Sta) salary £370 inclusive; annual increments up to £450 p.a. considered. Similar experience in determining commencing salary. Recent qualified pharmacists eligible. Whole-time unestablished, possible establishment; subject to medical examination. Application stating age, quals., exper., with copies of up to 3 recent testimonials to **MEDICAL DIRECTOR at Hospital, IMMEDIATELY**. No forms (quote C.D.).

C. W. Radcliffe,
Clerk of the County Council
Middlesex Guildhall, S.W.1.

ROYAL NAVY MEDICAL DEPOT AND HOSPITALS

Vacancies in the Temporary Grades exist for home and foreign service for professional qualified pharmacists. Information regarding conditions of service can be obtained from Ministry of Labour and National Service, London Appointments Office, 1-6 Tavistock Square, London, W.C.1. Please quote reference number B.B. 164.

SURREY COUNTY COUNCIL

ASSISTANT PHARMACIST required for **EPSOM COUNTY HOSPITAL, Dorking Road, Epsom**. Commencing salary on grade £20 x £15-£430 x £20-£450 p.a. inclusive. Applications in writing, stating age, qualifications, and experience with copies of not more than three recent testimonials should be sent to the Medical Superintendent of the Hospital.

ST. MARY'S HOSPITAL FOR WOMEN AND CHILDREN, PLAISTOW, E.13.

CHIEF PHARMACIST. Applications are invited from registered pharmacists with not less than three years' hospital experience after qualifying as a pharmacist. Salary in accordance with J.N.C. Scale (£485 to £585). Applications giving full particulars of age, qualifications and experience, and copies of recent testimonials, to be sent to the Secretary.

TWO ASSISTANT PHARMACISTS required by **MIDDLESEX COUNTY COUNCIL NORTH MIDDLESEX COUNTY HOSPITAL, Edmonton, N.18**. Must be registered. Salary £370 x (4) £15 and (1) £20 to £450 p.a. incl. Previous experience as assistant pharmacist may be considered in determining commencing salary. Whole-time, established, pensionable subject to medical exam. Application stating age, qualifications, experience, with copies of testimonials, to Medical Director quoting C 686 CD) immediately.

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WEST RIDING OF YORKSHIRE HOSPITALS BOARD

ERFIELDS EMERGENCY HOSPITAL,
WAKEFIELD

APPOINTMENT OF DISPENSING ASSISTANT

PLICATIONS are invited from candidates to hold the Certificate of the Society of Dispensaries of London for the position of Dispensing Assistant at the above Hospital. The salary and conditions of service will be in conformity with the recommendations of the Negotiating Committee (Hospital Staffs). The salary scale will be £270 per annum rising by annual increments of £10 to £320, followed by long service increments of £10 per annum every four years to a maximum of £350 annum inclusive.

Applications, stating age, qualifications and experience, together with the names and addresses of two persons to whom reference may be made, should be forwarded immediately to the Medical Superintendent, Pinderfields Emergency Hospital, Wakefield.

G. L. BANNER.

Clerk to the Board.

Offices,
WAKEFIELD.
September 1947.

AGENCIES

36 words or less, 4d. for every additional word

ENTS, well connected with and calling upon high-class establishments in London and about U.K. required for new creations of made French type perfumes. Distributing U.K./Export areas considered. Full particulars 1/852, C. & D. Office.

UFACTURERS are invited to contact wholesale distributing firm requiring further quality lines, toilet preparations and fancy Stationery and surgical dressings accepted. 1/641, C. & D. Office.

UFACTURERS of range of established branded toilet preparations seek agents, call-chemists, hairdressers and stores, interested in adding additional lines on liberal commission Territories reserved. 1/721, C. & D. Office.

TH AFRICAN advertiser requires agencies from British manufacturers of medicinal, pharmaceutical and cosmetic preparations, drugs, salts, etc. 1/732, C. & D. Office.

LL-KNOWN and established firm of distributors and agents have vacancy for one or two sound selling lines. Excellent connections with retail and wholesale trades. Full details, prices terms to 1/775, C. & D. Office.

AGENCIES WANTED

36 words or less, 3d. for every additional word

EXPERIENCED traveller requires one or two (not more) agencies for East Anglia; own car; session and part expenses, or commission only. C. & D. Office.

TLEMAN with 18 years selling to wholesale and retail grocery, chemists, hardware, Co-ops, in whole of Southern and Western England. Desires contact manufacturers requiring agent. Fully experienced for conducting large turnover and first-class presentation, backed by prestige and 50 years' experience with connection. Box 801, The Square, Bournemouth.

ITALIAN doctor, chemist and pharmacist, 34 years old, good knowledge English, passport for U.K., well introduced with office in Milan, desires sole representation for Italy of first-class firm pharmaceutical or high-class luxury toilet products. Dott. Panico Ubaldo, 5 Via Monte Amiata, Milan, Italy.

SALES manager and chief sales representative, recently associated with a reputable firm, are now developing a first-class sales agency, and are interested in negotiating agencies for non-competitive products of repute, selling to chemists, co-operative societies, stores, etc. 100 per cent. distribution with good results guaranteed for sole agencies. Offers to 1/734, C. & D. Office.

BUSINESS OPPORTUNITIES

17/6 for 36 words or less, 4d. for every additional word

MANUFACTURING chemists could accept additional products for bottling and/or marketing as additional lines in the food, medicinal or cosmetic trades. 1/847, C. & D. Office.

SOUTH AFRICA. Principal of manufacturing chemists at present in England would be pleased to initiate discussions re possible licences for manufacture and/or distribution of proven products in the Union. 1/813, C. & D. Office.

BUSINESSES FOR DISPOSAL

8/6 for 36 words or less, 3d. for every additional word

HERBALIST and druggists' sundries business and property for sale. Previous owner old-established pharmacist and dentist. Situated main road West Hartlepool. An excellently well-fitted shop double windows, large room behind, six roomed house attached with all conveniences. House let to good tenant. Splendid opportunity for qualified chemist. Price £2,000 business, stock, fittings and property. Lovett, Flint, 31 Stockton Road, West Hartlepool.

LONDON, S.W.—Wholesale and manufacturing business of fairly recent establishment can be acquired for quick sale at bargain price (little more than value of stock only). Popular Northern seaside resort.—Manufacturing and retail business established 17 years ago. Good scope, more especially in the retail section. Shares in existing company can be acquired or the business purchased as a going concern. Gross profit for last financial year £2,100 approx. Northern County.—Manufacturing business of fairly recent establishment. Extensive premises; moderate rent. Owner going abroad and is prepared to sell at a sacrifice figure approximately equivalent to the value of the stock only. Capital requirements about £3,250. For further particulars of the foregoing businesses please apply to Ernest J. George & Co., 329 High Holborn, London, W.C.1, or 28 Rigby Buildings, 4 Aytoun Street, Manchester, 1.

BUSINESSES WANTED

8/6 for 36 words or less, 3d. for every additional word

DRUG stores wanted (small) or herbalist business. Full particulars and price in confidence to Jones, 2 Kendal Road, Hove, Sussex.

SCOTLAND.—Private pharmacist with capital seeks contact with proprietor contemplating retirement or others wishing to sell sound business. Coast or country town. Living accommodation must be available. Strictly confidential treatment of all replies. 1/799, C. & D. Office.

MISCELLANEOUS SALES

17/6 for 36 words or less, 4d. for every additional word

A NEW Valco V-1 230 v. single phase, electric powder filling machine, double hopper. Filling capacity up to 8 ounces. Suitable for shampoos, face powders, etc. £150. Can be seen and tried at Carl Mumby (Productions), Ltd., Cleethorpes.

A APPROXIMATELY 10 gross 6-oz. sprinkler caps. 1/831, C. & D. Office.

FOR SALE. 150 gross cosmetic jars in attractive ivory plastic. Patent grip lid. Capacity one ounce. Sample and price on application. Colour Plastics, Ltd., 113 London Road, Leicester.

OIL, surplus, pool grade 30 in 40-gall drums at 9/- per gall., delivered. Drums 30/- C.W.O. Verva, Ltd., High Path, Merton, S.W.19.

GUM Tragacanth, Flake. Finest quality white ribbon selected, about 160 lb. surplus stock. Small sample available. Write in first instance to 1/850, C. & D. Office.

SIX steel Kardex cabinets complete with one steel table practically new and in perfect condition. 1/851, C. & D. Office.

SURPLUS stock of vitamin K (acetomenaphthone) for disposal in minimum of 1 kilo lots, prompt delivery. 1/806, C. & D. Office.

TO clear, 25 gross 1½ drachm French perfume bottles with bakelite caps. H. S. Bottle Co., Ltd., 33 Haymarket, London, S.W.1.

5 x 45-gallon drums odourless white mineral oil. Pool 30. 9s. per gallon. Carriage paid. Drums £1 extra returnable. Carl Mumby (Productions), Ltd., Cleethorpes.

WANTED

8/6 for 36 words or less, 3d. for every additional word

A BIG price offered for home cines, cameras, or projectors. Bell-Howell, Kodak, G.B., etc. Also Leica, Contax and other precision cameras, enlargers, exposure meters, etc. Prompt cash. Wallace Heaton, Ltd., 126-7 New Bond Street, London, W.1.

ALKALI, caustic soda, soda ash or soda crystals or crex required in small or large quantities. State price per ton. 1/803, C. & D. Office.

AUTOMATIC cream filler wanted at once; big price paid. Shavex Co., Bavaria Road, Holway, N.15.

GLYCERINE wanted, any quantities taken of B.P. quality. Cash by return. State quantity available and price required to 157/296, C. & D. Office.

GLYCERINE — industrial pale straw or B.P.: urgently required. State price and quantity (1cwt. minimum). George Rice, Ltd., Hudson Bay Works, Warton Road, Stratford, E.15. Telephone: Maryland 1222.

LIQUORICE and menthol pellets required in bulk. 1/640, C. & D. Office.

MESSRS. T. H. WALTON & CO., LTD., Bradford Road, Batley, would like to contact any firms who have bottles of all shapes and sizes to offer. They would also be pleased to see any representatives of such firms when they are in this district.

STEARIC acid triple pressed required in large quantities. 147/850, C. & D. Office.

SACCHARIN tablets. Standard strength, 550 required by private pharmacist. Re weekly supplies if possible. Cash on delivery against pro-forma invoice if references supplied. Write in strict confidence to 1/754, C. & D. Office.

TABLET counter—small hand model to 100 tablets 6 mm. dia. (1.5 mm. t. Urgently required. Good price paid. Send registered post enclosing cost. W. M. Nicoll, Bridgnorth Pharmacy, Shropshire.

URGENTLY required, any quantity of aneurin hydrochloride (vitamin B1). A reply supply desired for product of own manufacture. Willing to offer surplus stock of pure ascorbic (vitamin C) in exchange for aneurin. State quantity available and price to Box 1/695, C. & D. Office.

WANTED, sodium perborate. 1/858, C. & D. Office.

WANTED urgently. "Manesty" Granulato. "Manesty" mixer; new or second-hand; good price. 1/854, C. & D. Office.

WANTED. Sifting and mixing machine for talcum powder, capacity up to 150 lbs. 1/852, C. & D. Office.

WANTED. Glycerol, pale straw or B.P., any quantity taken. Please state quantity and price required to 1/833, C. & D. Office.

WANTED. Fatty acids, any quantity of following: Stearic, single, double or triple pressed, hardened whale oil acids and palm kernel acids. State quantity and price required to 1/834, C. & D. Office.

WANTED. Power operated combined mixer and sifter. Capacity 200 lbs. Also steam jacketed pan with internal mixer. Capacity 50 gallons. 1/804, C. & D. Office.

WANTED. Machine for sifting and blending dry powders; Gardner's make preferred. Particulars to 1/747, C. & D. Office.

WANTED urgently: 10 gross each stoppered C.M. 20 oz. bottles. Must be amber, shape. Good price paid. Reply 1/435, C. & D. Office.

WANTED urgently. Supplies of witch hazel, methyl ethyl ketone. Reply 1/720, C. & D. Office.

2-OZ. and 4-oz. panel bottles, cork or other stoppers. 25-gross lots taken; also H.P. sauce type bottles. Locks, Chemists, Fordingbridge, Hants.

26-OZ and 13-oz. wine or champagne bottles required. 625/524, C. & D. Office.

FOR SALE

8/6 for 36 words or less, 3d. for every additional word

SMALL surplus stock of rubber bands in all sizes made from high quality rubber offered for sale at lowest prices. Feather sun Ltd. (Rubber Dept.), 7 Cambridge Avenue, Kilburn, N.W.6.

EXPORT TRADE

GRAND opportunity! for British manufacturers of drugs, chemicals, patent medicines, cosmetics, etc. Experienced firm with good connections and sound financial backing desires to become agents or representative in Jamaica and the West Indies. Write Miles Bros. Drug Store, Wholesale & Retail Drug Dealers, 15 Spanish Town, Kingston, Jamaica, B.W.I.



BROMIDES

SODIUM POTASSIUM
AND ALL SALTS

MANUFACTURED BY

WHIFFEN & SONS, LTD.

**ALDRSGATE CHEMICAL WORKS
FULHAM, LONDON, S.W.6**

TELEPHONE :
RENOWN 3416 Private Branch Exchange

TELEGRAMS :
WHIFFEN, LONDON

TOSCAT

BRAND
REGD TRADE MARK

We hold a wide range of stocks for immediate delivery, amongst which we call attention to the following:

ENDOCRINE PRODUCTS

Thyroid B.P.

Orchitic Substance

Hæmoglobin Scales

Parathyroid

Pepsin

PHARMACEUTICAL CHEMICALS, ALKALOIDS, etc.

Amidopyrin
Digitalin Crystals
Eserine Salicylate
Eserine Sulphate
Stilboestrol
Nicotinic Acid

Phenazone
Hexyl Resorcinol
Ichthammol B.P.
Ephedrine Alkaloid and Salts
Amino Acetic Acid
Nicotinamide

BOTANICALS, etc.

Jalap Root (vera Cruz)
Belladonna Root
Belladonna Herb
Hyoscyamus Muticus

Papain
Gamboge
Hellebore Root
Aloes (Cape)

Camphor Natural

Menthol Natural

The Biddle Sawyer Corporation, 62, W. 47th Street, NEW YORK, U.S.A.
Biddle, Sawyer & Co. (India), Ltd., Frere Road, BOMBAY, INDIA
Propac Biddle, Avenida Rio Branco 85, RIO DE JANEIRO, BRAZIL
Rioplatense Biddle Paseo Colon 221, BUENOS AIRES, ARGENTINA

BIDDLE, SAWYER & CO. LTD.

4 GRAFTON STREET, LONDON, W.1.

TELEPHONE: REGENT 0521

TELEGRAMS: 'BIDSAWYA.PICCY, LONDON'

